PAGE NO. SH

TITLE

PART NO. EC NO. FEATURE B/M OR B/MS

** LOGIC TYPE DIAGNOSTIC MANUAL 7

C80004.15*	F804*	2321-2540	SUAN PROG DESC	0840257	125643		0840128
080004.15-	F804	2821-2540	CHNL REG AND CTRL	0840258	125643	- W -	0840128
080005.15-			BUFFER ADDRESS	0840260		• W •	0840128
• • • • • • • • • • • • • • • • • • • •			PCH XLATOR OVLY 5	0840474	125643	. W .	0840128
C80006.15-			UCS SCAN DESC	0840222	1	- W -	0840124
080012.15*				0840223			0840124
C80012.15-	FBUC	2821-1403	UCS SCAN RTN 1-2				0840124
C80013.15-	F80D	2821-1403	UCS SCAN RTN 1-2	0840225	170000	• W •	0040124

TABLE OF CONTENTS 3-1 LOADING ...
3-2 OPERATING ...
3-3 PROGRAM HALTS ...
3-4 PROGRAM TERMINATION ... APPENDIX

1. PURPOSE

TO ISOLATE A SOLID DATA PATH FAILURE WITHIN THE 2821 -- 2540 ATTACHMENT.

2. PREREQUISITES

2.1 PROGRAM REQUIREMENTS

THE PROGRAM IS RUN WITH A DIAGNOSTIC MONITOR. THE PROGRAM ASSUMES THAT THE CPU & CHANNEL ARE OPERABLE. THE PROGRAM ASSUMES THAT 1/O COMMANDS ARE OPERABLE. THE PROGRAM IS RELOCATABLE.

2.2 EQUIPMENT REQUIREMENTS

PROGRAM LOADING DEVICE HARD COPY OUTPUT DEVICE
CPU - OPERABLE CHANNEL - OPERABLE 8K MINIMUM STORAGE 2540 READER/PUNCH 2821 CONTROL UNIT WITH FOLLOWING REQUIREMENTS— CONTROL CIRCUITS FUNCTION PROPERLY. ERROR CHECKING CIRCUITS FUNCTION PROPERLY. READER & PUNCH CAN BE MADE READY

2.3 PROGRAM IDENTIFICATION NUMBERS

TO MINIMIZE MAINTENANCE COSTS FOR FUTURE PROGRAM REVISIONS DUE TO ENGINEERING CHANGE ACTIVITY, THE FOLLOWING ID NUMBERS HAVE BEEN ASSIGNED TO VARIOUS PORTIONS OF THIS PROGRAM PACKAGE.

I ID NUMBER I	ASSIGNMENT
I F804*	DESCRIPTION OF COMPLETE PROGRAM WHICH INCLUDES ALL ROUTINE OVERLAYS.
I F804 I	OBJECT DECKS AND ASSEMBLER PROGRAM LISTINGS FOR ROUTINE OVERLAYS O1 AND O2.

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· I		I	OBJECT DECKS AND ASSEMBLER PROGRAM LISTINGS FOR ROUTINE OVERLAYS 03 AND 04.	I
	806	I	OBJECT DECK AND ASSEMBLER PROGRAM LISTING FOR ROUTINE OVERLAY 05.	I

NOTE THE SEARCH NUMBER FOR THIS PROGRAM IS 804--805 AND 806 CAN NOT BE USED.

3. USE PROCEDURE

3.1 LOADING

STANDARD VIA DM AS DESCRIBED IN THE USERS GUIDE.

SINCE THIS PROGRAM PACKAGE UTILIZES THE PROGRAM OVERLAY CONCEPT, ALL ROUTINES MUST BE LOADED AND RUN IN ID NUMBER SEQUENCE.

3.2 OPERATING

3.2.1 GENERAL OPERATING

THE READER AND PUNCH MUST BE MADE READY BEFORE RUNNING THIS PROGRAM. THE PUNCH MUST BE LOADED WITH AT LEAST 20 BLANK CARDS PER PROGRAM PASS.

3.2.2 SENSE SWITCH USAGE -- COMMON TO ALL ROUTINES--

THE SENSE SWITCHES SHOWN BELOW ARE IN THE SENSE SWITCH BYTE OF THEIR RESPECTIVE SECTION PREFACE. THE CHARACTER X REPRESENTS THE RELOCATION FACTOR CONTAINED IN REGISTER 15 DURING RUN TIME. THE SWITCH BITS ARE ZERO WHEN OFF, AND ONE WHEN ON.

_				
I I I	SENSE SW. =	I I FUNCTION I		I BYTE I AND I BIT
I I	0	I OFFPROCEED NORMALLY I ONSHORT LOOP ON START I/O - TEST I/O	I ENTIRE I	X004
I I	1	I OFFPROCEED NORMALLY I ONENTER UTILITY SCOPE ROUTINE	,,	X004
I	2	I OFFPROCEED NORMALLY I ONLOG DUT DATA ACCUMULATION TABLE	,,	X004
I	6	I OFFPROCEED NORMALLY I ONPRINT SECTION TITLE	[,,]	X004

3.2.3 UTILITY ROUTINE SET UP PROCEDURES

THIS IS A RESIDENT ROUTINE. IT CAN ONLY BE ENTERED AT THE BEGINNING OF EACH ROUTINE OR AFTER THE ANALYSIS RESULTS AND LOG OUT PRINTOUT OF EACH ROUTINE. THIS ROUTINE WILL BE ENTERED AT THESE TIMES IF SECTION SENSE SWITCH 1 IS SET TO 1.

WHEN THIS ROUTINE IS ENTERED, AN OUTPUT MESSAGE WILL INFORM THE C.E. TO PRESS CONSOLE STOP, THEN ENTER THE SCOPING DATA. THIS DATA IS TO BE ENTERED, IN HEX, VIA THE CONSOLE SWITCHES AS INDICATED BELOW.

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01234567 01234567 01234567 01234567 I-OP CODEI) I)--SLI FLAG, BIT 2 *-- SKIP FLAG, BIT 3 SEE I --- CONTENTS OF DATA FIELD-GRB GRC -- CCW COUNT----I II/O ADDRESS-I

NOTES--THE FOUR BYTES OF DATA ENTERED IN GRB WILL BE RIPPLED THROUGHOUT THE CCW DATA FIELD. --- IF THE CCW COUNT EXCEEDS 180 BYTES, THE ROUTINE WILL FORCE IT TO 180. -- THE MAIN STORAGE LOCATIONS OF PERTINENT FIELDS USED BY THIS ROUTINE ARE LISTED BELOW. X DENOTES THE CONTENTS OF GENERAL REGISTER 15.

> SIO INSTRUCTION -- X6C6 THRU X6C9 CAW -- XO48 THRU XO4B CCW -- XOE8 THRU XOEF DATA FIELD -- X234 THRU X2E7

AFTER THE ABOVE DATA HAS BEEN ENTERED, THE C.E. COULD SET UP ONE OF THE FOLLOWING OPTIONS BEFORE PRESSING

- 1. SET SECTION SENSE SWITCH 0 TO 1 TO PUT THE SELECTED OP IN A TIGHT START I/O - TEST I/O LOOP.
- 2. SET SECTION SENSE SWITCH 0 TO 0 TO PERFORM THE SELECTED OP ONCE. IN THIS CASE THE UTILITY ROUTINE WILL PERFORM THE SELECTED OP ONCE, THEN REQUEST NEW SCOPING DATA.
- 3. SET SECTION SENSE SWITCHES O AND 1 TO ZERO. IN THIS CASE, THE SELECTED OP WILL NOT BE PERFORMED, AND A BRANCH BACK TO THE MAIN PROGRAM WILL OCCUR.

THE C.E. CAN EXIT FROM THE UTILITY ROUTINE BY PRESSING CONSOLE STOP AT ANY TIME, SET SECTION SENSE SWITCHES O AND 1 TO ZERO, THEN PRESS CONSOLE START.

3.3 HALTS

3.3.1 NORMAL HALTS

NONE

3.3.2 ERROR HALTS -- COMMON TO ALL ROUTINES--THE PROGRAM WILL NOT STOP ON ANY ERROR HALTS UNLESS THE HALT ON ERROR SENSE SWITCH IS ON IN THE DIAGNOSTIC MONITOR.

3.3.3 SPECIAL HALTS -- COMMON TO ALL ROUTINES

THE PROGRAM WILL ONLY HALT ON THE SPECIAL HALTS IF THE CORRESPONDING SENSE SWITCHES ARE SET.

HALT AFTER LOG OUT OF ACCUMULATED DATA

IF THE OPERATOR REQUESTS THE LOG OUT OF THE ACCUMULATED

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DATA, THE PROGRAM WILL HALT AFTER THE LOG OUT. IN ORDER TO CONTINUE, THE CONSOLE INTERRUPT KEY MUST BE

HALT TO SET UP INFORMATION FOR UTILITY ROUTINE.

IF THE OPERATOR REQUESTS TO USE THE BUILT-IN UTILITY ROUTINE, THE PROGRAM WILL LOOP TO WAIT FOR THE C.E. TO PRESS CONSOLE STOP -- REFER TO SECTION 3.2.3 FOR DETAILS CONCERNING THE BUILT-IN UTILITY ROUTINE.

3.4 TERMINATION

THE PROGRAM RETURNS CONTROL OF THE SYSTEM TO MONITOR VIA MONITOR CALL SVC D6.

4. PRINTOUTS

4.1 TITLE PRINTOUTS

THE FOLLOWING TITLE PRINTOUTS WILL OCCUR ONLY IF SECTION SENSE SWITCH 06 IS SET TO 1.

-2821 SCAN/2540 ATTACHMENT, CHANNEL REGISTER FLT

ABOVE PRINTOUT IS THE TITLE FOR ROUTINE OVERLAY OI

-2821 SCAN/2540 ATTACHMENT, CONTROL PROGRAM

ABOVE PRINTOUT IS THE TITLE FOR ROUTINE OVERLAY 02.

-2821 SCAN/2540 ATTACHMENT, BUFFER ADDRESSING FLT

ABOVE PRINTOUT IS THE TITLE FOR ROUTINE OVERLAY 03.

-READ XLATE FLT-

ABOVE PRINTOUT IS THE TITLE FOR ROUTINE OVERLAY 04.

-PUNCH XLATE FLT-

ABOVE PRINTOUT IS THE TITLE PRINTOUT FOR ROUTINE OVERLAY 05.

4.2 INSTRUCTIONS TO THE OPERATOR -- COMMON TO ALL ROUTINES--

-I/O ADDR XXX CAW YYYYYYYY GOT CC1 CSW STATUS 0200 SNS 40-MAKE THIS UNIT RDY WITH BLANK CARDS-

ABOVE MESSAGE WILL BE PRINTED IF INTERVENTION REQUIRED IS ENCOUNTERED WHEN TRYING TO EXECUTE AN I/O OPERATION. XXX DEFINES THE UNIT ADDRESS AND Y--Y DEFINES THE CHANNEL ADDRESS WORD DATA. THE PROGRAM WILL LOOP FOR 20 SECONDS TO ALLOW THE UNIT TO BE MADE READY. THE MESSAGE WILL BE REPEATED EVERY 20 SECONDS IF THE CONDITION IS NOT RECTIFIED.

4.3 ERROR MESSAGES

4.3.1 ERROR MESSAGES COMMON TO ALL ROUTINES

-I/O ADDR XXX CAW YYYYYYYY GOT CC O BUT NO INTERRUPT-

ABOVE MESSAGE WILL BE PRINTED IF NO I/O INTERRUPT OCCURS WITHIN 10 SECONDS OF RECEIVING CONDITION CODE O TO AN I/O OPERATION. XXX DEFINES THE UNIT ADDRESS AND Y--Y

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DEFINES THE CHANNEL ADDRESS WORD DATA. THE PROGRAM WILL RETRY THE I/O OPERATION.

-I/O ADDR XXX CAW YYYYYYYY GOT CC U CSW STATUS VVVV SNS ZZ-

ABOVE MESSAGE WILL BE PRINTED WHEN UNEXPECTED UNIT OR CHANNEL STATUS IS RECEIVED IN RESPONSE TO AN I/O OPERATION. XXX DEFINES THE UNIT ADDRESS, Y--Y DEFINES THE CHANNEL ADDRESS WORD DATA, U DEFINES THE CONDITION CODE -- O OR 1--, VVVV DEFINES THE UNIT AND CHANNEL STATUS, AND ZZ DEFINES THE SENSE DATA. THE PROGRAM WILL RETRY THE I/O OPERATION.

-I/O ADDR XXX CAW YYYYYYYY GOT CC U-

ABOVE MESSAGE WILL BE PRINTED WHEN CONDITION CODE 2 OR 3 IS RECEIVED IN RESPONSE TO A START I/O. XXX DEFINES THE UNIT ADDRESS, Y--Y DEFINES THE CHANNEL ADDRESS WORD DATA, AND U DEFINES THE CONDITION CODE. THE PROGRAM WILL RETRY THE I/O OPERATION.

-DIAG CK RD UNIT XXX NOT OK, WILL TRY AGAIN-

ABOVE MESSAGE WILL BE PRINTED IF THE DIAGNOSTIC CHECK READ COMMAND DOES NOT TRANSFER DATA TO THE CPU. XXX DEFINES THE UNIT ADDRESS. THE PROGRAM WILL RETRY THE OPERATION.

4.3.2 ERROR MESSAGES COMMON ONLY TO ROUTINE 02 -- CONTROL PROGRAM--

ABOVE MESSAGE DEFINES AN ADDRESS REGISTER PROBLEM.

-ERR 002 THRU 004-**RESERVED**

ABOVE MESSAGE DEFINES A CHANNEL REGISTER PROBLEM.

ABOVE MESSAGE DEFINES PROBLEM WITH BUFFER INHIBIT LINES AND/OR CONTROLS OR SENSE AMPS WITH DATA CHECK.

ABOVE MESSAGE DEFINES A CHANNEL REGISTER PROBLEM.

ABOVE MESSAGE DEFINES A PROBLEM WITH BUFFER INHIBIT LINES AND/OR CONTROLS OR SENSE AMPS WITH NO DATA CHECK.

ABOVE MESSAGE DEFINES A PROBLEM WITH PARITY BIT INHIBIT LINES OR CONTROLS OR PARITY SENSE AMP. COULD ALSO BE INTERMITTENT PARITY PROBLEM.

ABOVE MESSAGE DEFINES A FALSE READ TRANSLATE PROBLEM IN READ TRANSLATE CHECK CIRCUITS.

ABOVE MESSAGE DEFINES A DATA REGISTER PROBLEM.

ABOVE MESSAGE DEFINES A FALSE PUNCH TRANSLATE CHECK.

ABOVE MESSAGE DEFINES MULTIPLE ERRORS -COULD BE FALSE PUNCH AND/OR FALSE READ TRANSLATE CHECKS.

-ERR 014-

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ABOVE MESSAGE DEFINES FALSE PARITY CHECKS.

-ERR 015-ABOVE MESSAGE DEFINES FALSE PUNCH TRANSLATE CHECKS.

ABOVE MESSAGE DEFINES MULTIPLE ERRORS -COULD BE FALSE TRANSLATE AND/OR FALSE PARITY ERRORS.

ABOVE MESSAGE DEFINES FALSE PARITY CHECKS.

ABOVE MESSAGE DEFINES READ BUFFER OR DIAGNOSTIC WRITE

-ERR 019-ABOVE MESSAGE DEFINES INTERMITTENT FALSE READ TRANSLATE CHECKS.

-ERR 020-ABOVE MESSAGE DEFINES INTERMITTENT PARITY CIRCUIT PROBLEM.

ABOVE MESSAGE DEFINES MULTIPLE ERRORS.

-ERR 022-ABOVE MESSAGE DEFINES DATA REGISTER OR READ TRANSLATE PROBLEM.

-ERR 023-ABOVE MESSAGE DEFINES MULTIPLE ERRORS.

ABOVE MESSAGE DEFINES A PUNCH TRANSLATE PROBLEM.

-ERR 025-ABOVE MESSAGE DEFINES A PUNCH TRANSLATE PROBLEM.

ABOVE MESSAGE DEFINES A FALSE PARITY CHECK PROBLEM.

-ERR 027 THRU 029-**RESERVED**

4.3.3 ERROR MESSAGES COMMON ONLY TO ROUTINE 01 -- CHANNEL REG FLT--

-FRR 030-NO CHANNEL REGISTER BITS WILL TURN ON LOGIC PAGE 32.11.12.1 CIRCUITS - BIDIO, BIEO9, BIA12 LOGIC PAGE 32.11.13.1 CIRCUITS - B1E12, B1E11, B1D02 LOGIC PAGE 32.11.16.1 CIRCUITS - B1CO4, B1E18

NO RESET TO CHANNEL REGISTER LOGIC PAGE 32.11.13.1 CIRCUITS - B1E12, H1E11, B1D02

CHANNEL REG -O- BIT DOES NOT TURN ON LOGIC PAGE 32.11.12.1 CIRCUITS - B1D09, B1D11, B1A11 LOGIC PAGE 32.11.21.1 CIRCUITS - B1H02

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CHANNEL REG -O- BIT DOES NOT TURN OFF
LOGIC PAGE 32-11-12-1
CIRCUITS - BIDO9, BID11, BIA11, BIB07, BID10
LOGIC PAGE 32.11.21.1
```

CIRCUITS - B1H02

-ERR 034-CHANNEL REG -1- BIT DOES NOT TURN ON LOGIC PAGE 32.11.12.1 CIRCUITS - 81009, B1011, B1A11 LOGIC PAGE 32.11.21.1 CIRCUITS - B1H02

-ERR 035-CHANNEL REG -1- BIT DOES NOT TURN OFF LOGIC PAGE 32-11-12-1 CIRCUITS - B1D09, B1D11, B1A11, B1B07, B1D10 LOGIC PAGE 32.11.21.1 CIRCUITS - B1H02

-ERR 036-CHANNEL REG -2- BIT DOES NOT TURN ON LOGIC PAGE 32.11.13.1 CIRCUITS - BIH10, BIE10, BID12, BIE12, B1F09 LOGIC PAGE 32.11.23.1 CIRCUITS - B1H02

CHANNEL REG -2- BIT DOES NOT TURN OFF LOGIC PAGE 32-11-13-1 CIRCUITS - B1H10, B1E10, B1D12, B1E12, B1B07, B1F09 LOGIC PAGE 32-11-23-1 CIRCUITS - B1H02 LOGIC PAGE 42.32.01.1 CIRCUITS - B4D16

CHANNEL REG -3- BIT DOES NOT TURN ON LOGIC PAGE 32.11.13.1 CIRCUITS - B1H10, B1E10, B1D12, B1F09 LOGIC PAGE 32-11-24-1 CIRCUITS - B1G07

-FRR 039-CHANNEL REG -3- BIT DOES NOT TURN OFF LOGIC PAGE 32-11-13-1 CIRCUITS - B1H10, B1E10, B1D12, B1E12, B1B07, B1F09, B1E12 LOGIC PAGE 32.11.24.1 CIRCUITS - B1G07 LOGIC PAGE 42.32.01.1 CIRCUITS - B4G23, B4D16

CHANNEL REG -4- BIT DOES NOT TURN ON LOGIC PAGE 32-11-14-1 CIRCUITS - B1F09, B1H10, B1F10, B1D12, B1C07, B1E12 LOGIC PAGE 32.11.25.1 CIRCUITS - 81G08

-ERR 041-CHANNEL REG -4- BIT DOES NOT TURN OFF LOGIC PAGE 32.11.14.1 CIRCUITS - B1H10, B1F10, B1D12, B1C07, B1E12, B1F09 LOGIC PAGE 32.11.25.1 CIRCUITS - B1G08 LOGIC PAGE 42.32.01.1 CIRCUITS - 84E16, 84G23

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-ERR 051-BAR UNITS A OUTPUT ALWAYS ACTIVE LOGIC PAGE 32.20.15.1 CIRCUITS - B3G06, B3F06, B3E05 -ERR 052-

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-ERR 042-CHANNEL REG -5- BIT DOES NOT TURN ON LOGIC PAGE 32.11.14.1 CIRCUITS - BIH10, B1F11, B1F10, B1G10, B1F09, B1C07 LOGIC PAGE 32-11-23-1 CIRCUITS - B1H02

-ERR 043-CHANNEL REG -5- BIT DOES NOT TURN OFF LOGIC PAGE 32.11.14.1 CIRCUITS - BIF10, BIF11, B1F10, B1C07, B1G10, B1F09 LOGIC PAGE 32.11.23.1 CIRCUITS - B1H02 LOGIC PAGE 42.32.01.1 CIRCUITS - B4E16, B4G19

CHANNEL REG -6- BIT DOES NOT TURN ON LOGIC PAGE 32.11.15.1 CIRCUITS - B1E08, B1H10, B1G11, B1F11, B1G10 LOGIC PAGE 32.11.26.1 CIRCUITS - BIG08

CHANNEL REG -6- BIT DOES NOT TURN OFF LOGIC PAGE 32.11.15.1 CIRCUITS - B1E08, B1H10, B1G11, B1F11, B1G10, B1C07 LOGIC PAGE 32.11.26.1 CIRCUITS - B1G08 LOGIC PAGE 42.32.02.1 CIRCUITS - B4F16, B4D08

CHANNEL REG -7- BIT DOES NOT TURN ON LOGIC PAGE 32.11.15.1 CIRCUITS - B1G10, B1H10, B1G11, B1F11 LOGIC PAGE 32.11.27.1 CIRCUITS - B1G09

-ERR .047-CHANNEL REG -7- BIT DOES NOT TURN OFF LOGIC PAGE 32-11-15-1 CIRCUITS - BIG10, BIH10, BIG11, B1F11, B1C07 LOGIC PAGE 32.11.27.1 CIRCUITS - B1G09 LOGIC PAGE 42.32.02.1 CIRCUITS - B4F16, B4G23

4-3-4 ERROR MESSAGES COMMON ONLY TO ROUTINE 03 -- BUFFER ADDR FLT--

-ERR 050-BAR PROBLEM - ERROR PATTERN IS ERRATIC. PROBLEM MAY BE INTERMITTENT. LOGIC PAGE 32.20.15.1 CIRCUITS - B3G06, B3G07 LOGIC PAGE 32.20.16.1 CIRCUITS - B3H05, B3H06 LOGIC PAGE 32.20.17.1 . CIRCUITS - B3H07

RAR UNITS A INPUT TO BAR ALWAYS ACTIVE

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LOGIC PAGE 32.20.15.1 CIRCUITS - B3G06

PAR UNITS A INPUT TO BAR ALWAYS ACTIVE LOGIC PAGE 32-20-15-1 CIRCUITS - B3G06

-ERR 054-BAR UNITS A OUTPUT NEVER ACTIVE LOGIC PAGE 32.20.15.1 CIRCUITS - B3G06, B3F06, B3E05

RAR UNITS A INPUT TO BAR NEVER ACTIVE LOGIC PAGE 32-20-15-1 CIRCUITS - B3G06

-ERR 056-PAR UNITS A INPUT TO BAR NEVER ACTIVE LOGIC PAGE 32.20.15.1 CIRCUITS - B3G06

-ERR .057-BAR UNITS B DUTPUT ALWAYS ACTIVE LOGIC PAGE 32.20.15.1 CIRCUITS - B3G06, B3F06, B3E05

-FRR 058-RAR UNITS B INPUT TO BAR ALWAYS ACTIVE LOGIC PAGE 32.20.15.1 CIRCUITS - B3G06

-ERR 059-PAR UNITS B INPUT TO BAR ALWAYS ACTIVE LOGIC PAGE 32.20.15.1 CIRCUITS - B3G06

-FRR 060-BAR UNITS B OUTPUT NEVER ACTIVE LOGIC PAGE 32.20.15.1 CIRCUITS - B3G06, B3F06, B3E05

-ERR 061-RAR UNITS B INPUT TO BAR NEVER ACTIVE LOGIC PAGE 32.20.15.1 CIRCUITS - B3G06

-ERR 062-PAR UNITS B INPUT TO BAR NEVER ACTIVE LOGIC PAGE 32-20-15-1 CIRCUITS - B3G06

BAR UNITS C OUTPUT ALWAYS ACTIVE LOGIC PAGE 32.20.15.1 CIRCUITS - B3G07, B3F06, B3E05

RAR UNITS C INPUT TO BAR ALWAYS ACTIVE LOGIC PAGE 32.20.15.1 CIRCUITS - B3G07

PAR UNITS C INPUT TO BAR ALWAYS ACTIVE LOGIC PAGE 32.20.15.1 CIRCUITS - 83G07

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-ERR 066-BAR UNITS C DUTPUT NEVER ACTIVE LOGIC PAGE 32.20.15.1 CIRCUITS - B3G07, B3F06, B3E05

-FRR 067-RAR UNITS C INPUT TO BAR NEVER ACTIVE LOGIC PAGE 32.20.15.1 CIRCUITS - B3G07

-FRR 068-PAR UNITS C INPUT TO BAR NEVER ACTIVE LOGIC PAGE 32.20.15.1 CIRCUITS - 83G07

-ERR 069-BAR UNITS D OUTPUT ALWAYS ACTIVE LOGIC PAGE 32.20.15.1 CIRCUITS - B3G07, B3F06, B3E05

-ERR 070-RAR UNITS D INPUT TO BAR ALWAYS ACTIVE LOGIC PAGE 32.20.15.1 CIRCUITS - B3G07

-ERR 071PAR UNITS D INPUT TO BAR ALWAYS ACTIVE
LOGIC PAGE 32.20.15.1
CIRCUITS - B3G07

-ERR 072-BAR UNITS D OUTPUT NEVER ACTIVE LOGIC PAGE 32-20-15-1 CIRCUITS - B3G07, B3F06, B3E05

RAR UNITS D INPUT TO BAR NEVER ACTIVE LOGIC PAGE 32.20.15.1 CIRCUITS - B3G07

-ERR 074-PAR UNITS D INPUT TO BAR NEVER ACTIVE LOGIC PAGE 32.20.15.1 CIRCUITS - B3G07

BAR UNITS E OUTPUT ALWAYS ACTIVE LOGIC PAGE 32.20.16.1 CIRCUITS - B3H05, B3F06, B3F05

RAR UNITS E INPUT TO BAR ALWAYS ACTIVE LOGIC PAGE 32.20.16.1 CIRCUITS - B3H05

-ERR 077-PAR UNITS E INPUT TO BAR ALWAYS ACTIVE LOGIC PAGE 32.20.16.1 CIRCUITS - B3H05

-ERR 078-BAR UNITS E OUTPUT NEVER ACTIVE LOGIC PAGE 32.20.16.1 CIRCUITS - B3H05, B3F06, B3F05

RAR UNITS E INPUT TO BAR NEVER ACTIVE LOGIC PAGE 32.20.16.1

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CIRCUITS - 83H05

-ERR 080-PAR UNITS E INPUT TO BAR NEVER ACTIVE LOGIC PAGE 32-20-16-1 CIRCUITS - B3H05

-ERR 081-BAR TENS A OUTPUT ALWAYS ACTIVE LOGIC PAGE 32.20.16.1 CIRCUITS - B3H05, B3F06, B3F05

-ERR 082-RAR TENS A INPUT TO BAR ALWAYS ACTIVE LOGIC PAGE 32.20.16.1 CIRCUITS - 83H05

-ERR 083-PAR TENS A INPUT TO BAR ALWAYS ACTIVE LOGIC PAGE 32.20-16-1 CIRCUITS - B3H05

-ERR 084-BAR TENS A OUTPUT NEVER ACTIVE LOGIC PAGE 32.20-16-1 CIRCUITS - B3HD5, B3F06, B3F05

-ERR 085-RAR TENS A INPUT TO BAR NEVER ACTIVE LOGIC PAGE 32-20-16-1 CIRCUITS - B3H05

-ERR 086-PAR TENS A INPUT TO BAR NEVER ACTIVE LOGIC PAGE 32.20.16.1 CIRCUITS - B3H05

ERR 087-BAR TENS B OUTPUT ALWAYS ACTIVE LOGIC PAGE 32.20.16.1 CIRCUITS - B3H06, B3F07, B3F05

-ERR OBB-RAR TENS B INPUT TO BAR ALWAYS ACTIVE LOGIC PAGE 32.20.16.1 CIRCUITS - B3H06

PAR TENS B INPUT TO BAR ALWAYS ACTIVE LOGIC PAGE 32-20-16-1 CIRCUITS - B3H06

ERR 090-BAR TENS B OUTPUT NEVER ACTIVE LOGIC PAGE 32-20-16-1 CIRCUITS - B3H06, B3F07, B3F05

-ERR 091RAR TENS B INPUT TO BAR NEVER ACTIVE LOGIC PAGE 32-20-16-1
CIRCUITS - B3H06

-ERR 092-PAR TENS B INPUT TO BAR NEVER ACTIVE LOGIC PAGE 32.20.16.1 CIRCUITS - B3H06

-ERR 093-

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BAR TENS C OUTPUT ALWAYS ACTIVE LOGIC PAGE 32.20.16.1 CIRCUITS - B3HO6, B3F07, B3F05

-ERR 094-RAR TENS C INPUT TO BAR ALWAYS ACTIVE LOGIC PAGE 32.20.16.1 CIRCUITS - B3H06

+ERR 095-PAR TENS C INPUT TO BAR ALWAYS ACTIVE LOGIC PAGE 32-20-16-1 CIRCUITS - B3H06

-ERR 096-BAR TENS C OUTPUT NEVER ACTIVE LOGIC PAGE 32.20.16.1 CIRCUITS - B3H06, B3F07, B3F05

-ERR 097-RAR TENS C INPUT TO BAR NEVER ACTIVE LOGIC PAGE 32-20-16-1 CIRCUITS - B3H06

-ERR 098-PAR TENS C INPUT TO BAR NEVER ACTIVE LOGIC PAGE 32.20.16.1 CIRCUITS - B3H06

-ERR 099-BAR TENS D DUTPUT ALWAYS ACTIVE LOGIC PAGE 32.20.17.1 CIRCUITS - B3H07, B3F07, B3G05

-ERR 100-RAR TENS D INPUT TO BAR ALWAYS ACTIVE LOGIC PAGE 32.20.17.1 CIRCUITS - B3H07

-ERR 101PAR TENS D INPUT TO BAR ALWAYS ACTIVE
LOGIC PAGE 32-20-17-1
CIRCUITS - B3H07

-ERR 102-BAR TENS D DUTPUT NEVER ACTIVE LOGIC PAGE 32-20-17-1 CIRCUITS - B3H07, B3F07, B3G05

-ERR 103-RAR TENS D INPUT TO BAR NEVER ACTIVE LOGIC PAGE 32.20.17.1 CIRCUITS - B3H07

-ERR 104PAR TENS D INPUT TO BAR NEVER ACTIVE
LOGIC PAGE 32.20.17.1
CIRCUITS - B3H07

-ERR 105-BAR TENS E OUTPUT ALWAYS ACTIVE LOGIC PAGE 32-20-17-1 CIRCUITS - B3H07, B3F07, B3G05

-ERR 106-RAR TENS E INPUT TO BAR ALWAYS ACTIVE LOGIC PAGE 32-20-17-1 CIRCUITS - B3H07

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PAR TENS E INPUT TO BAR ALWAYS ACTIVE LOGIC PAGE 32.20.17.1 CIRCUITS - B3H07

BAR TENS E OUTPUT NEVER ACTIVE LOGIC PAGE 32.20.17.1 CIRCUITS - B3H07, B3F07, B3G05

RAR TENS E INPUT TO BAR NEVER ACTIVE LOGIC PAGE 32.20.17.1 CIRCUITS - B3H07.

PAR TENS E INPUT TO BAR NEVER ACTIVE LOGIC PAGE 32.20.17.1 CIRCUITS - B3H07

-ERR 111RAR PROBLEM THAT COULD BE CAUSED BY ONE OF THE FOLLOWING
1. UNITS OR TENS TRIGGERS A OR B ALWAYS ACTIVE LOGIC PAGE 32.20.11.1 CIRCUITS - 83E08, 83E09 LOGIC PAGE 32.20.12.1 CIRCUITS - B3F08, B3F09, B3B09
2. UNITS TRIGGER A NEVER ACTIVE LOGIC PAGE 32.20-11.1

CIRCUITS - B3E08 TENS TRIGGERS D OR E NEVER ACTIVE LOGIC PAGE 32.20.12.1 CIRCUITS - B3F11, B3F12, B3C12

PAR PROBLEM THAT COULD BE CAUSED BY ONE OF THE FOLLOWING

1. UNITS OR TENS TRIGGERS A OR B ALWAYS ACTIVE

LOGIC PAGE 32.20.13.1

CIRCUITS - B3GO8, B3GO9

LOGIC PAGE 32.20.14.1

CIRCUITS - B3HO8, B3HO9, B3B10

2. UNITS TRIGGER A NEVER ACTIVE

LOGIC PAGE 32.20.13.1 CIRCUITS - B3G08 TENS TRIGGERS D OR E NEVER ACTIVE

LOGIC PAGE 32.20.14.1 CIRCUITS - B3H11, B3H12, B3C12 -ERR 113-RAR UNITS TRIGGER B NEVER ACTIVE

LOGIC PAGE 32.20.11.1 CIRCUITS - B3E09 PAR UNITS TRIGGER B NEVER ACTIVE LOGIC PAGE 32.20.13.1 CIRCUITS - B3G09

-ERR 115-RAR UNITS C TRIGGER NEVER ACTIVE LOGIC PAGE 32.20.11.1 CIRCUITS - B3E10

PAR UNITS C TRIGGER NEVER ACTIVE LOGIC PAGE 32-20-13-1 CIRCUITS - 83G10

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-ERR 117-RAR UNITS D TRIGGER NEVER ACTIVE LOGIC PAGE 32.20.11.1 CIRCUITS - B3E11

-ERR 118-PAR UNITS D TRIGGER NEVER ACTIVE LOGIC PAGE 32.20.13.1 CIRCUITS - B3G11

-ERR 119-RAR TENS B TRIGGER NEVER ACTIVE LOGIC PAGE 32.20.12.1 CIRCUITS - B3F09

PAR TENS B TRIGGER NEVER ACTIVE LOGIC PAGE 32.20.14.1 CIRCUITS - B3H09

RAR TENS C TRIGGER NEVER ACTIVE LOGIC PAGE 32.20.12.1 CIRCUITS - 83F10

-ERR 122-PAR TENS C TRIGGER NEVER ACTIVE LOGIC PAGE 32.20.14.1 CIRCUITS - B3H10

RAR PROBLEM THAT COULD BE CAUSED BY ONE OF THE FOLLOWING

1. UNITS OR TENS TRIGGERS D OR E ALWAYS ACTIVE

LOGIC PAGE 32.20.11.1

CIRCUITS — B3E11, B3E12 LOGIC PAGE 32.20.12.1 CIRCUITS - B3F11, B3F12, B3B09, B3B10
2. UNITS ADVANCE NEVER ACTIVE
LOGIC PAGE 32.20.11.1
CIRCUITS - B3F13

TENS ADVANCE NEVER ACTIVE LOGIC PAGE 32.20.12.1 CIRCUITS - B3F14, B3C18, B3F15

-ERR 124-PAR PROBLEM THAT COULD BE CAUSED BY ONE OF THE FOLLOWING 1. UNITS OR TENS TRIGGERS D OR E ALWAYS ACTIVE LOGIC PAGE 32.20.13.1
CIRCUITS - B3G11, B3G12
LOGIC PAGE 32.20.14.1
CIRCUITS - B3H11, B3H12, B3B11
2. UNITS ADVANCE NEVER ACTIVE LOGIC PAGE 32.20.13.1

CIRCUITS - B3G13
3. TENS ADVANCE NEVER ACTIVE LOGIC PAGE 32.20.14.1 CIRCUITS - B3G14, B3F15, B3C18

-ERR 125-RAR UNITS C TRIGGER ALWAYS ACTIVE LOGIC PAGE 32.20.11.1 CIRCUITS - B3E10

PAR UNITS C TRIGGER ALWAYS ACTIVE LOGIC PAGE 32.20.13.1 CIRCUITS - B3G10

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-ERR 127-RAR PROBLEM -- ERROR PATTERN CANNOT BE IDENTIFIED. PROBLEM MAY BE INTERMITTENT. LOGIC PAGES 32-20-11-1 AND 32-20-12-1 CIRCUITS - ALL INDICATED IN ABOVE LOGIC PAGES

-ERR 128PAR PROBLEM -- ERROR PATTERN CANNOT BE IDENTIFIED. PROBLEM MAY BE INTERMITTENT. LOGIC PAGES 32.20.13.1 AND 32.20.14.1 CIRCUITS - ALL INDICATED IN ABOVE LOGIC PAGES

-ERR 129-PROBLEM IN CIRCUITS USED TO DETECT COLUMN 80 LOGIC PAGE 32.31.05.1 CIRCUITS - 83A27, 83805, 83804

-ERR 130-RAR UNITS E TRIGGER NEVER ACTIVE LOGIC PAGE 32.20.11.1 CIRCUITS - B3D12, B3E13, B3F15

-ERR 131-PAR UNITS E TRIGGER NEVER ACTIVE LOGIC PAGE 32.20.13.1 CIRCUITS - B3D12, B3E14, B3F15

RAR TENS A TRIGGER NEVER ACTIVE LOGIC PAGE 32.20.12.1 CIRCUITS - B3F08, B3B29

-ERR 133-PAR TENS A TRIGGER NEVER ACTIVE LOGIC PAGE 32.20.14.1 CIRCUITS - B3H08, B3B29

-ERR 134-FALSE BAR ADDRESS CHECKS . LOGIC PAGES 32-20-18-1, 32-20-19-1 CIRCUITS - ALL INDICATED IN ABOVE LOGIC PAGES

-ERR 135 THRU 139-**RESERVED**

4.3.5 ERROR MESSAGES COMMON ONLY TO ROUTINE 04 -- READER TRANSLATOR FLT--

I I IERRORI I NO. I	DESCRIPTION I	ALD PAGE	CIRCUITS
I I I I	DATA RECORDS ARE MISSING OR ARE OUT OF SEQUENCE. THERE IS A TOTAL OF 129 DATA RECORDS SEQUENCE NUMBERED 084 THRU 212.		
I I	CAN NOT ISOLATE READER TRANSLATOR FAILURE. SET SECTION SENSE SWITCH 2-TO 1 TO OBTAIN PROGRAM LOG OUT.		I I I I
1 142 I		32.20.31.1 42.23.03.1	B3F22,B3E22 I B4D12

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I 162 I CAN NOT SET DATA REG 8 TR

I	143	DATA REG 12 TR ON SOLID		B3F22,B3E22,B3E18,I B3H22 I
· I			42.23.03.1	
I		CAN NOT SET DATA REG 11 TR	32.20.31.1 42.23.03.1	B3G22,B3E22 I B4D12 I
Î	. 1	1	[1	B3G22,B3E22,B3E18,I B3H22
I]		[42.23.03.1]	[B4D12
I		CAN NOT SET DATA REG O TR.	1 32.20.31.1 1 1 42.23.03.1 1	
Ī	147		I	. B3F23,B3E23,B3E18,I B3H23 I
I		[[42.23.03.1] []	
I		CAN NOT SET DATA REG 1 TR WITH DIAGNOSTIC WRITE	[32.20.32.1] [42.23.03.1]	B3G23,B3E23 I B4D12 I
I	149		[B3G23,B3E23,B3E18,I B3H23 I
I		[[42.23.03.1] []	B4D12
I			1 32.20.32.1 1 42.23.03.1 1	
Ī	151	DATA REG 2 TR ON SOLID	I	B3F24,B3E24,B3E19,I B3H24 I
I		also niteraços seus come com mais selé sigue quis nati evan sigue quas enus anno mais tenu mun seus entre naco also quis elle side color mun max	[42.23.03.1 [84E12
1			1 32.20.32.1 1 42.23.03.1	B3G24+B3E24 I B4E12 I
I	153	DATA REG 3 TR ON SOLID	i 1	B3G24,B3E24,B3E19,I B3H24
I	[dan mur nin nen alle den san eun dan dan ten mit nier dah seur nen seur dan men det nen den seur dan der den die der der der	[42.23.03.1]	B4E12
I			I 32.20.33.1 1 I 42.23.04.1 1	83F25,83E25 I 84E12 I
Î	155		I 1	B3F25,B3E25,B3E19,I
I			[42.23.04.1]	,84612
I	•]		[32.20.33.1] [42.23.04.1]	B3G25,B3E25 I B4E12 I
Î	157	DATA REG 5 TR ON SOLID		B3G25,B3E25,B3E19,I B3H25
I			[42.23.04.1]	B4E12 I
. I			32.20.33.1 42.23.04.1	B3F26+B3E26 I B4F12 I
I	159	DATE NEW O, IN SHEET		B3F26,83E26,83E20,I
I			42.23.04.1	
I			32.20.34.1 42.23.04.1	B3G26,B3E26 I B4F12 I
I	161	DATA REG 7 TR ON SOLID	32.20.34.1	B3G26,B3E26,B3E20,I B3H26
I			42.23.04.1	B4F12 I
i	162	CAN NOT SET DATA REG 8 TR	32-20-34-1	B3F27,B3E27 I

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I I	I WITH DIAGNOSTIC WRITE	I 42.23.04.1 I	
_	I DATA REG 8 TR ON SOLID		I B3F27,B3E27,B3E20, I B3H27
I I	I I	I 42.23.04.1	I B4F12
	I CAN NOT SET DATA REG 9 TR I WITH DIAGNOSTIC WRITE	-	I B3G27,B3E27 I B4F12
1 165	DATA REG 9 TR ON SOLID	I 32.20.34.1	I B3G27,B3E27,B3E20,
Ī		I 42.23.04.1	
	B3F22C TO B3E22C		B3E22,83F22
1 167	I B3E22A STUCK AT MINUS Y	I 32.20.31.1	I B3E22
•	B3F22E TO B3E22D	I 32.20.31.1	I B3E22.B3F22
		I 32.20.31.1	I B3E22
I 170	I B3G22C TO B3E22H	I 32.20.31.1	
I 171	B3E22L STUCK AT MINUS Y	I 32.20.31.1	•
1 172	83G22E TO 83E22P		B3E22,B3G22
Î 173 Î	B3E22Q STUCK AT PLUS Y	I 32.20.31.1	I B3E22
1 174	B3F23C TO B3E23C	I 32.20.31.1	B3E23,B3F23
1 175		I 32.20.31.1	
	B3F23E TO B3E23D		B3E23 B3F23
	B3E23E STUCK AT PLUS Y	I 32.20.31.1	B3E23
1 178	B3G23C TO B3E23H .	I 32.20.32.1	B3E23,B3G23
1 179	B3E23L STUCK AT MINUS Y	32.20.32.1	
	B3G23E TO B3E23P	I 32.20.32.1	I B3E23,B3G23
	B3E23Q STUCK AT PLUS Y	32.20.32.1	•
182	B3F24C TO B3E24C	32.20.32.1	
183	B3E24A STUCK AT MINUS Y	32.20.32.1	
	B3F24E TO B3E24D	32.20.32.1	B3E24+83F24
	B3E24E STUCK AT PLUS Y	32.20.32.1	
	B3G24C TO B3E24H OR	32.20.32.1	B3E24,B3G24
[]	CAN NOT GET INVALID CARD	32.31.10.1	
		32.20.32.1	
	OR B3E24L TO B1G29G		B1G29 . I
188 1	B3G24E TO B3E24P		B3E24,83G24
189	B3E24Q STUCK AT PLUS Y	32.20.32.1	B3E24 I
		[] [32.20.33.1] []	B3E25,B3F25

		•			
I			32.31.10.1	B1F30 I	
I	I	OR CAN NOT GET INVALID CARD CODE VIA 4 NT 567	32.31.10.1 I	i i	
I		_	32.20.33.1	B3E25 1	
I	I		32-31-10-1		
I		B3F25E TO B3E25D 1		B3E25,B3F25 I	
I	193 I	B3E25E STUCK AT PLUS Y		B3E25 I	
I	194 1	B3G25C TO B3E25H	•	83E25,83G25	
I	1		32.31.10.1	B1F29	
I	. I	CODE VIA 5 NT 67	32.31.10.1	B1G30 I	
I		B3E25L' STUCK AT MINUS Y	32.20.33.1		
I	1	OR B3E25L TO B1G30B	32.31.10.1	B1G30 I	
I	196	B3G25E TO B3E25P		B3E25,83G25	
I		B3E25Q STUCK AT PLUS Y		•	:
l	198		32.20.33.1	B3E26,B3F26	
I	1	. 030200 10 0322011	32.20.33.1	B3G26	
I	1	CODE VIA 6 NT 7	32.31.10.1	B1G30	
I		B3E26A STUCK AT MINUS Y	32.20.33.1	B3E26	
I			32.31.10.1	81G30	
I		B3F26E TO B3E26D			
1		B3E26E STUCK AT PLUS Y	32.20.33.1		[
1	202		•	•]
1	203		32.20.34.1		
1		B3E26L TO B1G30L	32.31.10.1		
1	204	B3G26E TO B3E26P	1 32.20.34.1	I B3E26, B3G26	
]	205	·	I 32.20.34.1		I
1	206	B3F27C TO B3E27C	•	B3E27,B3F27	
]	207	I B3E27A STUCK AT MINUS Y	32.20.34.1	ВЗЕ27	-
]	208	B3F27E TO B3E27D		B3E27,83F27	-
]	209	2	32.20.34.1	83627	[
.]	210	B3G27C TO B3E27H .		B3E27,B3G27	Ĺ
]	211	BBE27L STUCK AT MINUS Y	1 32.20.34.1	B3E27	[
]		•	1 32.20.34.1	B3E27,83G27	I
1	213		32.20.34.1		1

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214 I	83E22A TO 84A07A	I 32.20.61.1 I 32.20.31.1	B4A07 I B3E22 I
215 I	83E22L TO 84A07B	I 32.20.61.1 I 32.20.31.1	B4A07 I B3E22 I
216	B4A07G STUCK AT MINUS Y	I 32.20.61.1	B4A07 I
217		1 32.20.61.1	I B4A07 I
218	B3E22A TO B4A07D	I 32.20.61.1 I 32.20.31.1	I 84A07 I
		I 32.20.61.1 I 32.20.31.1	I B3E23 I
	B4A07C STUCK AT MINUS Y	1 32.20.61.1	B4A07 I
221 1	B4A07C STUCK AT PLUS Y	1 32.20.61.1	I B4A07 I
222	I B3E22L TO B4A07L	I 32.20.61.1 I 32.20.31.1	I B4A07 I
		I 32.20.61.1 I 32.20.31.1	I B3E23 I
	Cincil Crook in themes	1 32.20.61.1 I	I B4A07 I
225	B4AO7F STUCK AT PLUS Y	I 32.20.61.1	I B4A07 I
226	B3E22E TO B4A07P	I 32.20.61.1 I 32.20.31.1	I 84A07 I I 83E22 I
	B3E22Q TO B4A07Q	I 32.20.61.1 I 32.20.31.1	I B4A07 I B3E22 I
	B4AO7R STUCK AT MINUS Y	1 32.20.61.1	I B4A07 I
229	BAAOTR STUCK AT PLUS Y	1 32.20.61.1	I 84A07 I
230		I 32.20.62.1 I 32.20.34.1	I 84A09 I I 83E26 . I
231	I B3E25Q TO B4A09L	I 32.20.62.1 I 32.20.33.1	I B4A09 I I B3E25 I
232	I B3E25E TO B4A09H I	I 32.20.62.1 I 32.20.33.1	I 84A09 I I 83E25 I
233	B3E24Q TO B4A09F	I 32.20.62.1 I 32.20.32.1	I B4A09 I
•	1 B3E24E TO B4A09E	I 32.20.62.1 I 32.20.32.1	I B4A09 I I B3E24 I
		I 32.20.62.1 I 32.20.33.1	
		I 32.20.62.1	
237	I B4A09P STUCK AT PLUS Y	I 32.20.62.1	
238 1	I B3E27Q TO B4A10D I	1 32.20.62.1 1 32.20.34.1	I B4A10 I I B3E27 I
1 239	I 83E23A TO 84A10C	I 32.20.62.1 I 32.20.31.1	I B4A10 I

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1 240 I B3E22E TO B4A10B 32.20.62.1 I B4A10 32.20.31.1 I B3E22 I 241 I B3E22Q TO B4A10A 32.20.62.1 I B4A10 32.20.31.1 I B3E22 I 242 I B3E27A TO B4A10E 32.20.62.1 I B4A10 I 32.20.34.1 I B3E27 I 243 I 84A10G STUCK AT MINUS Y 32.20.62.1 I B4A10 I B4A10G TO B4A14L 32.20.66.1 I B4A14 I 244 I B4A10G STUCK AT PLUS Y 32.20.62.1 I B4A10 I B4A14F STUCK AT MINUS Y 32.20.66.1 I B4A14 1 245 I B3E25E TO B4A10H 32.20.66.1 I B4A10 32.20.33.1 I B3E25 I 246 I B3E24E TO B4A10F 32.20.66.1 I B4A10 32.20.32.1 I B3E24 I 247 I B3E26E TO B4A10L 32.20.66.1 I B4A10 32.20.33.1 I B3E26 I 248 I B3E27E TO B4A10R 32.20.66.1 I B4A10 32.20.34.1 I B3E27 32.20.66.1 I B4A10 I 249 I B3E27L TO B4A10Q 32.20.34.1 I B3E27 250 I B4A10P STUCK AT MINUS Y 32.20.66.1 I B4A10 I 251 I B4A10P, B4A14G, OR B4A14C 32.20.66.1 I B4A10,84A14 STUCK AT PLUS Y I B4B14C OR B4B13D STUCK 32.20.66.1 I B4B14.B4B13 I AT MINUS Y I B4B14C TO B4C08G 32.20.66.1 I B4C08 I B4B130 TO B1G11F 32.11.15.1 I BIG11 252 I B3E27L TO B4A12A 32.20.65.1 I B4A12 OF OR I B4A07R TO B4A12L 32.20.34.1 I B3E27 32.20.61.1 I B4A07 I B3E24E TO B4A12H 32.20.32.1 I B3E24 32.20.65.1 I B4A12 253 I B3E24A TO B4A12R 1 32.20.32.1 I B3E24 I 32.20.65.1 I B4A12 I 254 I B3E27A TO B4A12B 32.20.34.1 I B3E27 I 255 I ALWAYS GET READ XLATE 4 32.20.65.1 I B4A12,84A13,84B19,1 84C16,84B13 I 256 I CAN NOT GET READ XLATE 4 32.20.65.1 I B4A12 I VIA MINUS Y DATA REG 9.2.8 I 257 I B3E27E TO B4A14A 32.20.66.1 I B4A14 32.20.34.1 I B3E27 I B4808C TO 84A14E I 32.20.61.1 I 84808 I 258 I B3E23L TO B4A14B I 32.20.06.1 I B4A14

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I		I 32.20.32.1	
	I B4A14G STUCK AT MINUS Y	I 32.20.66.1	I 84A14
1 260		I	Ī
	Ī	I 32.20.66.1 I 32.20.32.1	I B4A22
1 262 1	I B3E26Q TO B4A22R I	I 32.20.66.1 I 32.20.34.1	I B4A22 I B3E26
I i	B3E26E TO B4A22H	I 32.20.66.1 : I 32.20.33.1 :	B4A22 .
I 264	I ALWAYS GET READ XLATE 6 I I	I 32.20.66.1 I I I 32.11.15.1 I	I B4A22,B4A14,B4B13, I B4C13 I B1G11
I I	I B4A22P STUCK AT PLUS Y I OR I B4B13C STUCK AT MINUS Y	I 32.20.66.1 II 32.11.14.1 II 32.20.66.1	I B4A22 I B1F10 I B4B13
I 266 I	I B3E22E TO B4B07B	I 32.20.61.1 I 32.20.31.1 I	B4807 B3E22
I 267	B3E23E TO B4B07A	I 32.20.61.1 I 32.20.31.1 I	B4B07 B3E23
268	B4B07G STUCK AT MINUS Y	I 32.20.61.1	B4B07
1 269	I B4B07G STUCK AT PLUS Y	I 32.20.61.1	B4B07
	I B3E23E TO B4B07D	I 32.20.61.1 I I 32.20.31.1 I	B4B07 B3E23
1	B3E22Q TO B4B07E	I 32.20.61.1 I	B4B07 B3E22
	B4B07C STUCK AT MINUS Y	I 32.20.61.1 I	B4807
273	B4B07C STUCK AT PLUS Y	I 32.20.61.1	84807
274 	B3E27E TO B4B07H OR B4A08A TO B4C10Q OR	I 32.20.61.1 I I 32.20.34.1 I I 32.20.63.1 I I 32.20.61.1 I I 32.20.62.1 I	B4807 B3E27 B4C10 B4A08
	· · · · · · · · · · · · · · · · · · ·	I 32.20.61.1 I	B3E27
[]	B4B07F STUCK AT MINUS Y		B4807
[]	ata aya ma marawayan dan dibi uu mib ataraya can ayi ma aya ma milijasa ma'aan kin ma maramasinin asa tara tita sus	I 32.20.61.1 I I	The real rest rest real rest rest rest rest rest rest rest rest
[] []	OR B4B23C STUCK AT MINUS Y	I I 32.20.61.1 I	B4823
278 I	B3E24E TO B4B09C	I 32.20.62.1 I	B4B09 B3E24
1	B3E27E TO B4B09A	I 32.20.62.1 I I 32.20.34.1 I	B3E27
280	83E24Q TO 84B09D	I 32.20.62.1 I I 32.20.32.1 I	B4809

٠.				
281		I 32.20.62.1 I I 32.20.33.1 I	84809 83E25	I I I
282		I 32.20.62.1 I I 32.20.32.1 I	84809	I I
283		I 32.20.62.1 I	B3E25	I I
284	B3E26E TO B4B09G	[] I 32.20.62.1 I 32.20.33.1	B4809 B3E26	I I
285		1 32.20.62.1 I 1 32.20.34.1 I	B4B09	I I
286		I 32.20.62.1 I I 32.20.34.1 I	83E27	Î I
287	Digoti Grook At Minos	32.20.62.1	84809	Ī
288	B4B09P STUCK AT PLUS Y	1 32.20.62.1	B4B09	I
289		I 32.20.63.1 I I 32.20.34.1 I	84810 83E27	I
290		32.20.63.1 I	B4B10	I
291		1 32.20.63.1 1 1 32.20.31.1 1	B3E23	I I
292	ALWAYS GET READ XLATE O		B4B10,84C10,B4C11	Ī
		I 32.20.63.1 I	•	1
294		1 32.20.66.1 1 1 32.20.32.1 1	83E24	I I
295		I 32.20.66.1 I I 32.20.33.1 I	84814	I I
296		I 32.20.66.1 I		I I I
297	**RESERVED**	I I see was the ten and we was to the ten all		Ī
		1 32.20.66.1 1	I 84814	Ĭ
	B4COBF STUCK AT MINUS Y	I I 32.20.66.1 I		I
299	B4A09P TO B4C14P	I 32.20.62.1 I I 32.20.32.1 I I 32.20.62.1 I	84C08 83E23 84C14,84A09	I
	OR B4C23L STUCK AT PLUS Y	I I 32.20.62.1 I	B4C23	I
300	States a second at the second	I 32.20.62.1 I	B4C08 B4C14	I I
[]	and the control of th	I 32.11.12.1 I		I
301		I 32.20.64.1 I I 32.20.31.1 I		I
302		I 32.20.64.1 I		I
		•		

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		•	
	I ·	I 32.20.64.1 I 32.11.13.1	I B1E10
304	I CAN NOT BLOCK READ XLATE 2 I VIA MINUS Y DATA REG 12.N11	I 32.20.64.1	
	1 B3E26Q TO B4C13D	1 32.20.66.1 1 32.20.34.1	I B4C13 I B3E26
306	I B3E26E TO B4C13C	I 32.20.66.1 I 32.20.33.1	I B3E26
		I 32.20.66.1 I 32.20.33.1	I B4C13
	I B3E25E TO B4C13A	I 32.20.66.1 I 32.20.33.1	I B3E25
309	I B4C13G STUCK AT MINUS Y	I 32.20.66.1	I 84C13
310	I B4C13G STUCK AT PLUS Y	I 32.20.66.1	I 84C13
311	I B3E26E TO B1F29D	I 32.31.10.1 I 32.20.33.1	I B1F29 I B3E26
312	I B3E26Q TO B1F29E	I 32.31.10.1 I 32.20.34.1	I B1F29 I B3E26
	I B1F29C STUCK AT MINUS Y I OR	I 32.31.10.1	I B1F29
	I B1F29C TO B1G30A	I 32.31.10.1	
	I **RESERVED** I	I I	I
	I 83E25Q TO 81F30G I	I 32.31.10.1 I 32.20.33.1	I B1F30 I B3E25 I
316	I 83E26E TO B1F30E	I 32.31.10.1 I 32.20.33.1	I B1F30 I B3E26
317	I B3E26Q TO B1F30F	I 32.31.10.I I 32.20.34.1	I B1F30 I B3E26
318	I B1F3OL STUCK AT MINUS Y I OR	I	I B1F30 I
		I 32.31.10.1	I 81630
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	I	I 32.11.25.1	I 81G08
323	· I **RESERVED**		
	I B3E24Q TO B1H30A I	T 22 21 10 1	7 01430
325	1 B3E26Q TO B1H30E	I 32.31.10.1 I 32.20.34.1	I B1H3O I B3F26
	I B3E26E TO B1H30D	I 32.31.10.1 I 32.20.33.1	I B1H30

II I 327 I		[32.31.10.1 I I 32.20.33.1 I	
I 328 I		32.31.10.1 I	
		32.31.10.1 I	
		32.31.10.1	B1G29 I
	I CAN NOT GET INVALID CARD CODE I VIA 2 NT 34567	32.31.10.1	B1H3O,B1G29 I
1 331	I B4A07G TO B4A08R		B4A08,84A07 I
I 332	I B4A08A STUCK AT MINUS Y	I 32.20.61.1	B4A08 I
I 333	I B4AO.7C TO B4AO8P	I 32.20.61.1	B4A08,B4A07 I
	I BAAOBC STUCK AT MINUS Y	32.20.61.1	
Î 335			B4A08,B4A07 I
I 336	•	I 32.20.61.1	:
I 337	I B4B07G TO B4A08Q	I 32.20.61.1	B4A08,B4B07 I
I 338	I B4A08B STUCK AT MINUS Y	1 32.20.61.1	B4A08 I
I 339	I B4B07C TO B4A08E	•	B4A08,B4B07 I
I 340	I B4A08D STUCK AT MINUS Y	1 32.20.61.1	•
	I B3E23Q TO B4A12F	I 32.20.65.1	I B4A12 I
1		I 32.20.32.1 I	
	I OR I B4B13L TO B4A12G	I I 32.20.65.1	B4A12
I 342	I **RESERVED**	I	
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I I 344	I **RESERVED**	I	[
	I CAN NOT GET READ XLATE 4 VIA I DATA REG 8 NT 1 & NT T & NT E	I 32.20.65.1	I B4A12 I
		I 32.20.66.1 I 32.20.32.1	
I 347	I **RESERVED**	I	
I 348	I **RESERVED**	I	
I 349		I	
-	I B4A07R TO B4B08A	I 32.20.61.1	B4B08,B4A07 I
I 351	I B4B07G TO B4B08B	I 32.20.61.1	B4B08,B4B07
I 352	I B4B07C TO B4B08D	I 32.20.61.1	B4B08,B4B07
I 353	I B4B08C STUCK AT MINUS Y	1 32.20.61.1	B4B08 1
I 354	I B4BOBC STUCK AT PLUS Y	1 32.20.61.1	

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I		I	·
I 355	B4A07F TO B4B08Q	1 32.20.61.1	B4B08,B4A07
I 356	I B4A07C TO B4B08R	I 32.20.61.1	I B4B08,B4A07
I 357	1 B4A07G TO B4B08H	1 32.20.61.1	B4B08,B4A07
1 358	I B4B08P STUCK AT MINUS Y	I 32.20.61.1	B4B08,B4C09
-	B4B0BP STUCK AT PLUS Y	I 32.20.61.1	B4B08,B4C09
1 360	**RESERVED**	I	
1 361	**RESERVED**	I	
	B4A07R TO B4B13H		B4B13,B4A07
I I I	OR CAN NOT GET READ XLATE 4 VIA DATA REG 8 & NT 2 & NT T & NT E	I I 32.20.65.1	_
I 363	**RESERVED#*		
1 364	**RESERVED**		
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1 367 1		I	
	B4B09P TO B4C14R		B4C14,B4B09
1 1	B4B22A STUCK AT PLUS Y	I 32.20.62.1	[B4B22
1 369	B4C14A STUCK AT MINUS Y	I 32.20.62.1	1
		1 32.20.62.1	B4B22,B4C14
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371 1		I 32.20.62.1	B4C14
-	B4A09P TO B4C23D	I 32.20.62.1	B4C23+B4A09
	B4C23E STUCK AT PLUS Y	I 32.20.62.1 I	B4C23
	B4B09P TO B4C23P	1 32.20.62.1	B4C23+B4B09
•		I 32.20.62.1 I	
<u> </u>		I 32.11.14.1 I I 32.20.66.1 I	B4C13
377 I		I 32.11.14.1 I	B1F10
378 1	B3E24A TO B1G29A	I 32.31.10.1 I I 32.20.32.1 I	B1GI9
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380 I		I I	
381 I	**RESERVED**	I I	
I 382 I	**RESERVED**	I	
1 383 1	B4C13G TO B1G29L	1 32.31.10.1 1	B1G29

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I	404 I	B3E27A TO B4A13B	32.20.65.1 I 32.20.34.1 I	
I	405 I	B4A13G STUCK AT MINUS Y	32.20.65.1	_
I	406 I	**RESERVED**		I
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I	408 I	**RESERVED**	I	T
I	409 I	B4A14C STUCK AT MINUS Y	32.20.66.1 I	
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I I	I OR I B3E23Q TO 84C11L	I 32.20.63.1 I 32.20.31.1 I 32.20.63.1 I 32.20.63.1	I 83E23 I 84C11 I 83E23
-	B3E23E TO B4B10A	1 32.20.63.1 1 32.20.31.1	B4B10 . B3E23
I	I B3E23L TO B4B10R	32.20.63.1 32.20.32.1	I 84810 I 83E23
1 414	**RESERVED**	I	
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1 424 1	I CAN NOT GET READ XLATE O VIA I MINUS Y DATA REG 28384858667 I AND 2 AND 8	32.20.63.1	B4810
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I 32.20.64.1 I B4B11 432 I B4B08P TO B4B11A I 32.20.61.1 I B4B08 1 433 I B3E23Q TO B4B11C I 32.20.64.1 I B4B11 32.20.32.1 I B3E23 I 32.20.64.1 I B4B11 I 32.20.34.1 I B3E27 I B3E27E TO B4B11R I 434 I **RESERVED** 435 I CAN NOT GET READ XLATE 1 VIA 32.20.64.1 I B4B11 I MINUS Y DATA REG 9 AND 8 AND I 2 ZONES AND NOT 1 I 436 I B3E27L TO B4B11G 32.20.64.1 I B4B11 32.20.34.1 I B3E27 I 437 I **RESERVED** I 438 I B4B08P TO B4B11L 32.20.64.1 I B4B11 32.20.61.1 I B4B08 1 439 I **RESERVED** I 440 I **RESERVED** 32.20.64.1 I B4B11 441 I CAN NOT GET READ XLATE 1 VIA MINUS Y DATA REG 9 AND 1 AND I 2 ZONES AND NOT 8 I 442 I B3E22E TO B4B12A 32.20.65.1 I B4B12 I 32.20.31.1 I B3E22 I 32.20.65.1 I B4812 443 I 83E23A TO B4812R I 32.20.31.1 I B3E23 B4B22A TO B4B07P I 32.20.65.1 I B4B07 I 32.20.62.1 I B4822 I 32.20.65.1 I B4B12 444 I B4C23Q TO B4B12B I 32.20.62.1 I B4C23 I 32.20.65.1 I B4B12.B4B07 I 32.11.13.1 I B1E10 445 I NEVER GET READ XLATE 3 446 I CAN NOT BLOCK READ XLATE 3 I VIA MINUS Y DATA REG NOT T I 32.20.65.1 I B4B12 I AND O.AND 16263646566676869 I 32.20.65.1 I B4B12 I 32.20.62.1 I B4C23 I 32.20.65.1 I B4B12 447 I B4C23Q TO B4B12B I B3E22L TO B4B12F I 32.20.31.1 I B3E22 1 32.20.65.1 I B4B12 I 448 I B3E22A TO B4B12G I 32.20.31.1 I B3E22 I 32.20.65.1 I B4B12 449 I B3E22Q TO B4B12H I 32.20.31.1 I B3E22 I 450 I **RESERVED** I 451 I CAN NOT BLOCK READ XLATE 3
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468 I	B4A08C TO B4C10E	I 32.20.63.1 I	B4A08
469		[32.20.63.1] [32.20.34.1]	B4C10
470	**RESERVED**		
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I 477 I B3E23L TO B4C11C 32.20.63.1 I B4C11 32.20.32.1 I B3E23 I 478 I B3E27E TO B4C11B 32.20.63.1 I B4C11 I 32.20.34.1 I B3E27 I 479 I B4A08F TO B4C11E I 32.20.63.1 I B4C11 32.20.61.1 I B4A08 I 480 I B3E22E TO B4C11A I 32.20.63.1 I B4C11 I 32.20.31.1 I B3E22 I 481 I **RESERVED** 482 I CAN NOT GET READ XLATE O VIA I 32.20.63.1 I B4C11 I MINUS Y DATA REG 1 AND NOT 8 I AND E AND O AND NOT T 483 I B4B23C TO B4C11G I 32.20.63.1 I B4C11 I 32.20.61.1 I B4B23 I 484 I B3E23A TO B4C11Q I 32.20.63.1 I B4C11 1 32.20.31.1 I B3E23 485 I **RESERVED** 486 I **RESERVED** 1 487 1 **RESERVED** I 488 I CAN NOT GET READ XLATE O VIA I 32.20.63.1 I B4C11 I MINUS Y DATA REG NOT 8 AND I NOT 9 AND 0 AND NOT 1 AND I NOT E I 489 I B3E22L TO B4C12E I 32.20.64.1 I B4C12 32.20.31.1 I B3E22 I. B4B22A TO B4C12B 1 32.20.62.1 I B4B22 I 32.20.64.1 I B4C12 I 32.20.62.1 I B4C23 I I 490 I B4C23Q TO B4C12F 491 I B3E23E TO B4C12L 32.20.64.1 I B4C12 1 32.20.31.1 I B3E23 I 492 I **RESERVED** 493 I CAN NOT BLOCK READ XLATE 2 I 32.20.64.1 I B4C12 I VIA MINUS Y DATA REG E AND I 1626364656667 AND NOT 0 1 494 I B4A08A TO B4C13E 32.20.66.1 I B4C13 32.20.61.1 I B4A08 495 I 84823C TO 84C13F 32.20.66.1 I B4C13 32.20.61.1 I B4B23 I 496 I B3E25Q TO B4C13H I 32.20.66.1 I B4C13 I 32.20.33.1 I B3E25 497 I B3E25E TO B4C13L 32.20.66.1 I B4C13 32.20.33.1 I B3E25 I 32.20.66.1 I B4C13 I 32.20.31.1 I B3E23 498 I B3E23E TO B4C13Q I 499 I B3E23Q TO B4C13R I 32.20.66.1 I 84C13

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1 1		32.20.32.1 I	B3E23 I
I 500 I	B4C13P STUCK AT MINUS Y	32.20.66.1	84C13 I
I 501 I	**RESERVED**	1	İ
I 502 I		32.31.10.1 I 32.20.32.1 I	B3E23 I
1 503	84C23E TO 81G29F	32.31.10.1 1 32.20.62.1	B1G29 I
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1 512	I 84A08B TO 84B07Q	32.20.65.1 1 32.20.61.1	I B4B07 I I B4A08 I
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1 567	I **RESERVED**	I	The state of the state and
I 568	I B4B12C STUCK AT MINUS Y	I 32.20.65.1	•
I 569	I **RESERVED**	I	
-		I 32.20.66.1 I 32.11.15.1	I B4B13,B4C13,B4A14 I B1G11
-	I **RESERVED**	I I	
•	I ALWAYS GET READ XLATE 7	32.20.66.1	I B4B13,B4A14,B4C08, I B4A10,B4B14
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I -	I OR I B3E27L TO B4C10H I	I 32.20.63.1 I 32.20.34.1 I 32.20.63.1 I 32.20.34.1	I B3E27 I B4C10
I		I 32.20.63.1 I 32.20.34.1	
-	I **RESERVED**		
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I - :		32.20.63.1	B4C10
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1 614	I **RESERVED**	i	
I 615	**RESERVED**	I	I
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1 653 I	ALWAYS GET CHAN REG O AT PUNCH TRANSLATOR CIRCUITS	[32.11.12.1]	I B1D09,B1D10,B1D11, I B1A11

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	NEVER GET CHAN REG 1 AT PUNCH I TRANSLATOR CIRCUITS		I B1D09,B1D10,B1D11, I B1A11
	ALWAYS GET CHAN REG 1 AT PUNCHT TRANSLATOR CIRCUITS		1 B1D09,B1D10,B1D11, B1A11
656	NEVER GET CHAN REG 2 AT PUNCH I TRANSLATOR CIRCUITS		B1E10,B1E12,B1H10, B1F09,B1D12
657	ALWAYS GET CHAN REG 2 AT PUNCHI TRANSLATOR CIRCUITS		I B1E10,B1E12,B1H10, I B1F09,B1D12
658	NEVER GET CHAN REG 3 AT PUNCH I TRANSLATOR CIRCUITS	32.11.13.1	B1E10,B1E12,B1H10, B1F09,B1D12
	ALWAYS GET CHAN REG 3 AT PUNCHI TRANSLATOR CIRCUITS		B1E10,B1E12,B1H10, B1F09,B1D12
	NEVER GET CHAN REG 4 AT PUNCH I TRANSLATOR CIRCUITS		I 81F10,81E12,81F09, I 81H10,81D12
	ALWAYS GET CHAN REG 4 AT PUNCHI TRANSLATOR CIRCUITS		 B1F10,B1E12,B1F09, B1H10,B1D12
	NEVER GET CHAN REG 5 AT PUNCH I TRANSLATOR CIRCUITS		
	ALWAYS GET CHAN REG 5 AT PUNCHI TRANSLATOR CIRCUITS		I B1F10,B1G10,B1F09, I B1H10,B1F11
	NEVER GET CHAN REG 6 AT PUNCH I TRANSLATOR CIRCUITS	32.11.15.1	I B1G11,B1G10,B1E08, I B1H10,B1F11
	ALWAYS GET CHAN REG 6 AT PUNCHI TRANSLATOR CIRCUITS		1 B1G11,B1G10,B1E08, B1H10,B1F11
1	NEVER GET CHAN REG 7 AT PUNCH I TRANSLATOR CIRCUITS		 B1G11,B1G10,B1H10, B1F11
11 10 1	ALWAYS GET CHAN REG 7 AT PUNCHI TRANSLATOR CIRCUITS		I B1G11,B1G10,B1H10, B1F11
668	NEVER GET MINUS Y BUFFER ENTRY	32.20.80.1	I B4B22,64A21,84D22
669	**RESERVED**		
	NEVER GET PLUS Y CHAN REG O I AT PUNCH TRANSLATOR CIRCUITS I		B1D10,81D09
	ALWAYS GET PLUS Y CHAN REG O I AT PUNCH TRANSLATOR CIRCUITS I	32.11.12.1	B1D10,B1D09
672	NEVER GET MINUS Y CHAN REG O I AT PUNCH TRANSLATOR CIRCUITS I	32.11.12.1	B1D11,B1D09
	ALWAYS GET MINUS Y CHAN REG O I AT PUNCH TRANSLATOR CIRCUITS I	32.11.12.1	B1D11,B1D09
	NEVER GET PLUS Y CHAN REG 1 I AT PUNCH TRANSLATOR CIRCUITS I	32.11.12.1	B1D10,81D09
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677	ALWAYS GET MINUS Y CHAN REG 1 I	32.11.12.1	I

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I AT PUNCH TRANSLATOR CIRCUITS I

I AT PUNCH TRANSLATOR CIRCUITS

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694 I NEVER GET PLUS Y CHAN REG 6

I AT PUNCH TRANSLATOR CIRCUITS

695 I ALWAYS GET PLUS Y CHAN REG 6

I AT PUNCH TRANSLATOR CIRCUITS
I 696 I NEVER GET MINUS Y CHAN REG 6

I AT PUNCH TRANSLATOR CIRCUITS

I AT PUNCH TRANSLATOR CIRCUITS

699 I ALWAYS GET PLUS Y CHAN REG 7

I AT PUNCH TRANSLATOR CIRCUITS

I 678 I NEVER GET PLUS Y CHAN REG 2

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I AT PUNCH TRANSLATOR CIRCUITS I 679 I ALWAYS GET PLUS Y CHAN REG 2 I 32.11.13.1 I B1E12,81E10 I AT PUNCH TRANSLATOR CIRCUITS I 680 I NEVER GET MINUS Y CHAN REG 2" I 32.11.13.1 I B1F09,B1H10,B1E10 I AT PUNCH TRANSLATOR CIRCUITS I 681 I ALWAYS GET MINUS Y CHAN REG 2 I 32.11.13.1 I B1F09,B1H10,B1E10 I I AT PUNCH TRANSLATOR CIRCUITS I 682 I NEVER GET PLUS Y CHAN REG 3 I 32.11.13.1 I B1E12.81E10 I AT PUNCH TRANSLATOR CIRCUITS I 683 I ALWAYS GET PLUS Y CHAN REG 3 I 32.11.13.1 I B1E12.B1E10 I AT PUNCH TRANSLATOR CIRCUITS 684 I NEVER GET MINUS Y CHAN REG 3 I 32.11.13.1 I 81F09,81H10,81E10 I AT PUNCH TRANSLATOR CIRCUITS 685 I ALWAYS GET MINUS Y CHAN REG 3 I 32-11-13-1 I B1F09,81H10,81E10 I I AT PUNCH TRANSLATOR CIRCUITS 686 I NEVER GET PLUS Y CHAN REG 4 I 32.11.14.1 I B1E12,B1F10 I AT PUNCH TRANSLATOR CIRCUITS I 687 I ALWAYS GET PLUS Y CHAN REG 4 I 32.11.14.1 I B1E12.B1F10 I AT PUNCH TRANSLATOR CIRCUITS 688 I NEVER GET MINUS Y CHAN REG 4 I 32.11.14.1 I B1F09,B1H10,B1F10 I AT PUNCH TRANSLATOR CIRCUITS I 689 I ALWAYS GET MINUS Y CHAN REG 4 I 32.11.14.1 I B1F09.81H10.81F10 I AT PUNCH TRANSLATOR CIRCUITS 690 I NEVER GET PLUS Y CHAN REG 5 I AT PUNCH TRANSLATOR CIRCUITS I 691 I ALWAYS GET PLUS Y CHAN REG 5 I 32.11.14.1 I B1G10.B1F10 I AT PUNCH TRANSLATOR CIRCUITS 692 I NEVER GET MINUS Y CHAN REG 5 I 32.11.14.1 I B1F09,B1H10,B1F10 I AT PUNCH TRANSLATOR CIRCUITS I 693 I ALWAYS GET MINUS Y CHAN REG 5 I 32-11-14-1 I B1F09,B1H10,B1F10 I

697 I ALWAYS GET MINUS Y CHAN REG 6 I 32.11.15.1 I B1E08, B1H10, B1G11

I 32-11-13-1 I B1E12,81E10

I 32.11.15.1 I B1G11.B1G10

I 32.11.15.1 I B1G11,B1G10

I 32.11.15.1 I B1G10,B1G11

I 32.11.15.1 I 81G10,81G11

I 32.11.15.1 I B1E08,B1H10,B1G11

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I		I 32.11.15.1 I	I B1G10,B1H10,B1G11
I 701	I ALWAYS GET MINUS Y CHAN REG 7		I B1G10,B1H10,B1G11
I 702	I **RESERVED**	-	I was not not not and and the men and and the men and an an an and an an and an an and an and an and an and an an an and an
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1 704	I **RESERVED**	I	I also nome elem anno, anno elem nome anno anno anno anno anno anno anno ann
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Î 709	I **RESERVED**		The contract of the state can can all all contract on the state can all all contract on the state all all contracts on the state
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1 712	**RESERVED**		
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I 714		32.20.70.1 32.11.14.1	
		32.20.70.1	I 84A17
I 716		32.20.70.1	
I 717		32.20.70.1	
I 718	B4A17P STUCK AT MINUS Y	32.20.70.1	84A17
I 719	B4A17P STUCK AT PLUS Y	32.20.70.1	
I 720	BIGIOE TO B4B14F	32.20.70.1 32.11.15.1	B4B14
1 721 I		32.20.70.1 1 32.11.14.1 1	
I 722 I	BIGIOL TO B4B14G	32.20.70.1 1 32.11.15.1 1	B4B14 B1G10
I 723	B4B14L STUCK AT MINUS Y	32.20.70.1	B4814
I 724 I	B4B14L STUCK AT PLUS Y	32.20.70.1	B4B14
I 725 I	BIDIOA TO B4A13H	32.20.70.1 I 32.11.12.1 I	
I 726 I		32.20.70.1 I 32.11.12.1 I	
727	B4A13F STUCK AT MINUS Y	32.20.70.1	B4A13
	B4A13F STUCK AT PLUS Y	32.20.70.1 I	

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I 754 I B4C15C STUCK AT MINUS Y

I 758 I B4B14P STUCK AT MINUS Y

I 755 I BIG10A TO B4B14H

I 756 I B1E08Q TO B4B14Q

757 I B1G10L TO B4B14R

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I 729 I BID11P TO B4A13P 32.20.70.1 I 84A13 32.11.12.1 I B1D11 I 730 I BIDIIA TO B4A130 I 32.20.70.1 I B4A13 32.11.12.1 I B1D11 I 731 I B4A13R STUCK AT MINUS Y 32.20.70.1 I B4A13 I 732 I B4A13R STUCK AT PLUS Y I 32.20.70.1 I B4A13 733 I B1E12E TO 84C08Q 32-20-70-1 I B4C08,84A13,84B15 1 32.11.13.1 I B1E12 I B4A13R TO B4B15R I 734 I B4CO8B STUCK AT MINUS Y I 32.20.70.1 I B4C08 735 I BIG10L TO B4B16L 32.20.71.1 I B4B16 32.11.15.1 I B1G10 32.20.71.1 I B4816 1 736 I BIGIOA TO B4B16H 32.11.14.1 I B1G10 737 I B4B16F STUCK AT MINUS Y 32.20.71.1 I B4B16 I 738 I B4B16F STUCK AT PLUS Y 32.20.71.1 I B4B16 739 I BIG10A TO B4816P 32-20-71-1 I B4B16 32.11.14.1 I B1G10 740 I B1G10E TO B4B16Q 32.20.71.1 I B4B16 32-11-15-1 I B1G10 741 I B4816R STUCK AT MINUS Y I 32.20.71.1 I B4B16 742 I B4816R STUCK AT PLUS Y I 32.20.71.1 I 84816 1 32.20.73.1 I A4A11 743 I BIE12A TO B4A11G 32.11.13.1 I B1E12 744 I B1E12E TO B4A11H 32.20.73.1 I B4A11 32.11.13.1 I B1E12 745 I NEVER GET PUNCH TRANSLATE 11 I 32-20.31-1 I B3E18 32.20.73.1 I B4A18,84C17,84B17,1 I B4A11 746 I CAN NOT BLOCK PUNCH TRANSLATE I 32.20.73.1 I B4A11 I 11 VIA PLUS Y CHAN REG 2 AND 31 747 I BID10A TO B4C22D 32.20.77.1 I B4C22 32.11.12.1 I B1D10 748 I B1D10E TO B4C22P 32.20.77.1 I B4C22 32.11.12.1 I B1D10 749 I ALWAYS GET PUNCH TRANSLATE 9 32.20.34.1 I B3E20 32.20.77.1 I B4C22, B4C21, B4A21 750 I CAN NOT GET PUNCH TRANSLATE 9 I 32.20.77.1 I B4C22 I VIA MINUS Y NOT CHAN REG O I AND 1 I 751 I B4A17P TO B4C15R 32.20.70.1 I B4C15,84A17 752 I B4C15A STUCK AT MINUS Y I 32.20.70.1 I B4C15 I 753 I B4B14L TO B4C15P I 32-20-70-1 I B4C15,84814

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1 777 I B4B16C STUCK AT PLUS Y

I 778 I B4B16R TO B4C08E

I OR

I B4B23A STUCK AT MINUS Y

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I 32.20.70.1 I B4814 759 I B4B14P STUCK AT PLUS Y 760 I B1F09A TO B4A13D 32.20.70.1 I B4A13 I 32.11.13.1 I B1F09 1 761 I B1E12E TO B4A13E I 32.20.70.1 I B4A13 I 32.11.13.1 I B1E12 762 I B4A13C STUCK AT MINUS 32.20.70.1 I B4A13 I 763 I B4A13C STUCK AT PLUS Y I 32.20.70.1 I B4A13 764 I B4A13F TO B4A23Q 32.20.70.1 I B4A23,84A13 765 I B4A23P STUCK AT MINUS Y 32.20.70.1 I B4A23 I 766 I B4A13R TO B4A23R I 32.20.70.1 I B4A23.B4A13 767 I B4A23D STUCK AT MINUS 32.20.70.1 I B4A23 I 768 I **RESERVED** I 769 I 84815A STUCK AT MINUS Y I 32.20.70.1 I B4B15 770 I B1F09A TO B4B16A 32.20.71.1 I B4B16 I 32.11.13.1 I B1F09 I 32.20.71.1 I B4B16 1 771 I B1D10A TO B4B16B I 32.11.12.1 I B1010 772 I B4B16G STUCK AT MINUS Y 32.20.71.1 I B4B16,B4B15 I B4B16G TO B4B15P 773 I B4B16G STUCK AT PLUS Y 32.20.71.1 I B4B16,B4B15 B4B15C STUCK AT MINUS Y 774 I BIDIOA TO B4B16D 32.20.71.1 I B4B16 32.11.12.1 I B1D10 1 775 I B1F09L TO B4B16E 32.20.71.1 I B4B16 I 32.11.14.1 I B1F09 I 776 I B4B16C STUCK AT MINUS Y 32.20.71.1 I B4B16,B4B23 I B4B16C TO B4B23R

I 32.20.70.1 I B4C15

32.20.70.1 I B4B14

32-11-14-1 I BIG10

1 32.20.70.1 I B4B14 I 32.11.15.1 I B1E08

I 32.20.70.1 I B4B14

I 32.20.70.1 I 84814

32.20.71.1 I 84816.84823

I 32.20.71.1 I B4B22,84C08,84816 I

32.11.15.1 I BIG10

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	•		
I I ————	I B4B22Q STUCK AT PLUS Y	I	I I
		1 32-20-71-1	I 84C08,84B22
I	I OR I B4COBD TO B4B22P	I I	l I I
•	I B4B16R TO B4C23C	•	I B4C23.B4B16
781	B4C23A STUCK AT PLUS Y	I 32.20.71.1	I B4C23
782	I B1F09E TO B4A17D	I 32.20.72.1 I 32.11.13.1	I B4A17
783	I BIDIOE TO B4A17B	I 32.20.72.1 I 32.11.12.1	I B4A17 I B1D10
_		I 32.20.72.1 I 32.11.12.1	I B4A17
		I 32.20.72.1 I 32.20.70.1	
786		1 32.20.72.1	I 84A17
787	I NEVER GET PUNCH TRANSLATE 12	I 32.20.31.1 I 32.20.72.1	
788	I B1F09E TO B4B18G	I 32.20.74.1 I 32.11.13.1	I 84818 I 81609
789		I 32.20.74.1 I 32.11.13.1	B4B18
		I 32.20.74.1 I 32.20.70.1 I 32.20.71.1	I B4A13
791		I 32.20.31.1 I 32.20.74.1	B3E18 B4B18,B4C18,B4A19
: 1	I CAN NOT BLOCK PUNCH TRANSLATE I O VIA MINUS Y CHAN REG 3 AND I NOT 2 AND NOT 0.1	_	B4B18
		I 32.20.75.1	
1	B4A13R TO B4C19H	I 32.11.14.1 I I 32.20.70.1 I	[B1F09 [B4A13,B4B22
	OR B4B22L TO B4C19A	I	
794 1	B1G10E TO 84C19F	[] [32.20.75.1]	[B4C19
I		I 32.11.15.1 I	B1G10
795 I		I 32.20.32.1 I	
1	CAN NOT BLOCK PUNCH TRANSLATE 2 VIA MINUS Y CHAN REG 4 AND NOT 6	. 1	B4C19
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. 1	801	**RESERVED**		
. 1			32.20.75.1	
]	[I OR I B1G10E TO B4B20R	32.20.76.1 32.11.14.1 32.11.15.1	84820,84C20 81G10
]		[B1E08Q TO B4B20D	[] [32.20.76.1]	B4B20
]		are consumer and suit with all pairs support any way with the arts and was now was two with this way and with	[32.11.15.1] [
.]	1 805	I B1G10Q TO B4B20B	I 32.20.76.1 I 32.11.15.1	B1G10
.]	806		32.20.32.1 32.20.76.1	B4A20,B4B20
1	807	ALWAYS GET PUNCH TRANSLATE 3	32.20.32.1	B3E19 B4A20,B4B20
1	808		32.20.76.1 32.11.14.1	B4B20
.]	809		32.20.76.1 32.11.15.1	B1G10
]	810		32.20.76.1 32.11.15.1	B4B20
]	811		32.20.33.1 32.20.76.1	B4A20,84B20
1		ALWAYS GET PUNCH TRANSLATE 4	32.20.33.1 1 32.20.76.1	B3E19
1	813	**RESERVED**		with sugar news come come come come control and a state of the control and the control and the control and the
1	814		32.20.76.1 32.11.14.1	
1	815		32.20.76.1 1 32.11.15.1 1	B1G10
. 1	816		32.20.33.1 1 32.20.76.1 1	B3E19 B4A20,B4B20
1		ALWAYS GET PUNCH TRANSLATE 5	32.20.33.1	B3E19
.]	818	**RESERVED**		
1	819		32.20.76.1 32.11.15.1	
]	820		32.20.76.1 32.11.14.1	B1F09
I	821	NEVER GET PUNCH TRANSLATE 6	32.20.33.1 32.20.76.1	B3E20
I	822		32.20.33.1 1 32.20.76.1	
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823 1		32.20.76.1 1 32.11.14.1 1	B1F09
[824] [824]		32.20.76.1 I	
825		32.20.76.1 32.11.15.1 1	
			B3E20 B4A21,84C20
			B3E20 B4A21,B4C20
	i i	32.20.76.1 32.11.14.1	I B4A19 I B1E12
I	B B4B14L TO B4A19H I I OR I	32.20.70.1	B4A19,84821 B4B14,84A23
[•		THE THE THE REAL PROPERTY AND THE PROPER
[I NEVER GET PUNCH TRANSLATE 8 I	32.20.34.1	
I 832	I 84814P TO 84C15G		I 84C15,84B14
833	I B4C15F STUCK AT MINUS Y	32.20.70.1	I 84C15
1 834	I B4A13C TO B4B22H I		I 84822,84A13
835	I B4B22L STUCK AT PLUS Y	32.20.70.1	I 84822
836	I B4A13C TO B4A23B		I B4A23,84A13
837	I B4A23A STUCK AT MINUS Y	32.20.70.1	I B4A23
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1	850	I B4C15A TO B4A18P	32.20.70.1	B4A18 I
1	851	I B1E12A TO B4A18D I	32.20.73.1 32.11.13.1	B4A18 I B1E12 I
1	852	**RESERVED**		1
]	853 [CAN NOT BLOCK PUNCH TRANSLATE I 11 VIA MINUS Y CHAN REG 1 NOT I 10 AND NOT 40R50R60R7 AND NOT 21		B4A18 I
. 1		1 B4C15C TO B4A18E	32.20.73.1 32.20.70.1	
1			32.20.73.1	
	856	B4A23D TO B4A18L	32.20.73.1 32.20.70.1 32.11.15.1	B4A23
	857	**RESERVED**		
1	858	CAN NOT BLOCK PUNCH TRANSLATE I 11 VIA MINUS Y CHAN REG NOT 5 I 0R6 OR7 AND NOT 3 AND 0.1	32.20.73.1	B4A18 1
		I I	32.20.73.1	B4A23
		I B4C23A TO B4C17B I I OR I I B1F09L TO B4C17R I	32.20.73.1 32.20.71.1 32.11.14.1	B4C17
1	861	I B1E12Q TO B4C17D	32.20.73.1 32.11.14.1 1	B4C17
	862	B1F09A TO B4C17C	32.20.73.1 32.11.13.1	B4C17 B1F09
		B4C17G STUCK AT MINUS Y	32-20-73-1	B4C17 I
1	864	I **RESERVED**		
	865	I **RESERVED**	AND	
	866	B1E12A TO B4B18B I	32.20.74.1 32.11.13.1	B4818 I B1E12 I
]	867	I I	32.20.74.1 1 32.11.13.1 1	B1F09
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j	870		32.20.74.1 1 32.20.70.1 1	B4B18 I B4A23 I
1	871	I B4C15A TO B4818D I	32.20.74.1 32.20.70.1	84B18 1 84C15 1
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I 32.11.13.1 I B1E12 I 873 I **RESERVED** 1 874 I CAN NOT BLOCK PUNCH TRANSLATE I 32-20-74-1 I 84818
I I O VIA MINUS Y CHAN REG 1 NOT I
I I O AND NOT 40R50R60R7 AND NOT 3I I 875 I **RESERVED** I 876 I **RESERVED** I 877 I 84C19Q STUCK AT MINUS Y I 32.20.75.1 I B4C19 I 878 I **RESERVED** I 879 I **RESERVED** I 880 I **RESERVED** I 881 I **RESERVED** I 882 I **RESERVED** I 883 I **RESERVED** I 884 I **RESERVED** I 885 I **RESERVED** I 886 I **RESERVED** I 887 I **RESERVED** I 888 I **RESERVED** I 889 I **RESERVED** I 32.20.76.1 I B4B21 I 32.11.14.1 I B1E12 I 890 I B1E12Q TO B4B21B I 891 I **RESERVED** 892 I CAN NOT BLOCK PUNCH TRANSLATE I 32.20.76.1 I B4B21 I 8 VIA MINUS Y CHAN REG NOT 4 I AND 1 NOT O I 32.20.77.1 I B4C22 I 32.11.14.1 I B1E12 I 893 I B1E12Q TO B4C22R I 32.20.77.1 I B4C22 894 I B1D10A TO B4C22A I 32.11.12.1 I B1D10 I 32.20.77.1 I 84C22 I 32.20.71.1 I 84C23 I 895 I B4C23A TO B4C22B I 896 I **RESERVED** I 897 I CAN NOT GET PUNCH TRANSLATE I 32.20.77.1 I B4C22 I 9 VIA MINUS Y CHAN REG NOT 4 I AND NOT 0 AND 5 OR 6 I 898 I B1F09L TO B4C22G I 32.20.77.1 I B4C22 32.11.14.1 I B1F09 I 32.20.77.1 I 84C22 I 32.20.71.1 I 84C23 899 I B4C23A TO B4C22B

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I 9	. 1	CAN NOT GET PUNCH TRANSLATE 1 9 VIA MINUS Y CHAN REG 4 AND 1 50R6 AND 0.1	32.20.77.1	B4C22 I
I	I 03 I		32.20.72.1 I	B4B14 I
I 90	04 I	B4B23A TO B4A16P	32.20.72.1 I 32.20.71.1 I	B4A16 I
I 9	05 I		32.20.72.1 32.11.13.1	
I 9	06 1	**RESERVED**]	
I 9	1	CAN NOT BLOCK PUNCH TRANSLATE 1 12 VIA MINUS Y CHAN REG 50R6 0R7 AND 4NOTO AND 3	32.20.72.1	B4A16 I
I 9:	1		32.20.72.1 32.20.70.1 32.11.14.1	
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I I 9 I	1	CAN NOT BLOCK PUNCH TRANSLATE I 12 VIA MINUS Y CHAN REG NOT 1 1 AND 0 AND 2 NOT 3	32.20.72.1	B4A16 I
I 9	12	**RESERVED**		i
I 9	1			B4A16,B4C16 I B4A23,B4B15,B4C08 I
		RESERVED		Ī
I 9 I	1	CAN NOT BLOCK PUNCH TRANSLATE 1 12 VIA MINUS Y CHAN REG NOT 4 1 1 AND 2 NOT 3	32.20.72.1	B4A16 I
I 9 I	16	B1E12Q TO B4C16A	32.20.72.1 32.11.14.1 32.20.71.1	I BIEIZ
I 9	17	**RESERVED**		
I 9	18		32.20.72.1	B4C16 I
. 1 9	19	**RESERVED**		I I
-		B4A23A TO B4C16D	I 32.20.72.1 I 32.20.70.1	
7	1			
I 9	22	B4C16C STUCK AT MINUS Y	32.20.72.1	

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1	923 1	**RESERVED**		
A 12	924		32.20.72.1 32.20.70.1	
1	925	**RESERVED**		
9	926	B4C16F STUCK AT MINUS Y	32.20.72.1	B4C16
to those the	927	**RESERVED**		
1	928	84816F TO B4A18A	32.20.73.1 32.20.71.1	
1	. 1	81F09L TO 84A18R OR 84822Q TO 84B17R	32.20.73.1 32.11.14.1 32.20.71.1	B1F09
1	930		32.20.73.1 32.20.71.1	
1	931	a*RESERVED**		
3	1	CAN NOT BLOCK PUNCH TRANSLATE 11 VIA MINUS Y CHAN REG 50R7 1 AND 4 AND 2 NOT 0	1 32.20.73.1 I	B4A18
1	933	B4B15C TO B4A18B	32.20.73.1 32.20.71.1	I B4A18 I B4B15
1	934		32.20.73.1 32.11.12.1	
	935		I 32.20.73.1 I 32.20.70.1	
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1			1 32.20.73.1 1	B 4 A 1 8
1	938		32.20.73.1	
1	939		32.20.73.1 1 32.11.14.1	
. 3	940		32.20.73.1 32.11.13.1	
1	941	BIE08Q TO B4B17D	32.20.73.1 32.11.15.1	
1	942	B4B17G STUCK AT MINUS Y	32.20.73.1	• •
1	943	**RESERVED**		
1	944		32.20.73.1 32.11.12.1	
1	945	**RESERVED**		The state of the s
]	946		32.20.73.1 32.11.13.1	B4817 B1E12
1	947	**RESERVED**		
1				and the same of th

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Î 32.20.73.1 I B4B17 I 948 I B4B17P STUCK AT MINUS Y I 949 I **RESERVED** I 950 I **RESERVED** I 951 I B1D11P TO B4C17F 32.20.73.1 I 84C17 I 32.11.12.1 I B1D11 I 952 I B1G10Q TO B4C17H 32.20.73.1 I B4C17 I 32.11.15.1 I B1G10 I 32.20.73.1 I B4C17 1 953 1 B4B22Q TO B4C17Q 32.20.71.1 I B4822 I 954 I BIE12E TO B4C17L 32.20.73.1 I B4C17 32.11.13.1 I B1E12 I 955 I 84C17P STUCK AT MINUS Y 32.20.73.1 I B4C17 I 956 I **RESERVED** I 957 I B4B22Q TO B4A11E 32.20.73.1 I B4A11 32.20.71.1 I B4822 I 958 I **RESERVED** I 959 I B4B15A AND B4C08B TO B4A11P I 32.20.73.1 I B4A11 32.20.70.1 I B4B15,B4C08 I 960 I **RESERVED** I 961 I CAN NOT BLOCK PUNCH TRANSLATE I 32.20.73.1 I B4A11 I 11 VIA MINUS Y CHAN REG NOT I 50R6 AND 2 AND 0.1.3 I 962 I B1D10E TO B4C18D I 32.20.74.1 I B4C18 I 32.11.12.1 I B1D10 I 963 I B4B22L TO B4C18E 1 32.20.74.1 I B4C18 1 32.20.70.1 I 84822 I 964 I B4A17P TO B4C18F I 32.20.74.1 I B4C18 I 32.20.70.1 I B4A17 965 I BID10A TO B4C18H I 32.20.74.1 I B4C18 I 32.11.12.1 I B1D10 I 966 I **RESERVED** 967 I CAN NOT BLOCK PUNCH TRANSLATE I 32.20.74.1 I B4C18 I O VIA MINUS Y CHAN REG NOT 1 I AND NOT--2NOT3-- AND 40R50R6 I OR7 AND NOT O I 968 I B1E12Q TO B4C18B I 32.20.74.1 I B4C18 I 32.11.14.1 I B1E12 I 84822Q TO 84C18L I 32.20.71.1 I B4B22 I 32.20.74.1 I B4C18 I 969 I B4B22L TO B4C18E I 32.20.70.1 I B4B22 970 I B4B14L TO B4C18C I 32.20.74.1 I B4C18 I 32.20.70.1 I B4B14 I B1F09L TO B4C18Q I 32.11.14.1 I B1F09 I 32.20.74.1 I B4C18 I 971 I B4A23D TO B4C18A

I 32.20.70.1 I B4A23

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I 972 I **RESERVED** 973 I CAN NOT BLOCK PUNCH TRANSLATE I 32-20-74-1 I B4C18 I O VIA MINUS Y CHAN REG NOT 4 I AND NOT-2NOT3-- AND 50R60R7 I AND 0,.1 974 I B4A23D TO B4C18G 32.20.74.1 I B4C18 I 32.20.70.1 I B4A23 1 975 I **RESERVED** I 976 I **RESERVED** 32.20.74.1 I B4C18 977 I B4B22L TO B4C18R 1 32.20.70.1 I B4822 I 978 I **RESERVED** 979 I CAN NOT BLOCK PUNCH TRANSLATE I 32.20.74.1 I B4C18 I O VIA MINUS Y CHAN REG O.1 I AND NOT 50R6 AND 4 AND I NOT--2NOT3--1 32.20.74.1 1 B4B18 1 32.20.70.1 1 B4B22 I 980 I B4B22L TO B4B18E 32.20.74.1 I B4B18 I 981 I B4B16F TO B4B18F 32.20.71.1 I B4B16 I 32.20.74.1 I B4B18 I 32.20.71.1 I B4B23 I 982 I B4B23A TO B4B18L 1 983 I **RESERVED** 984 I CAN NOT BLOCK PUNCH TRANSLATE I 32.20.74.1 I 84818 I O VIA MINUS Y CHAN REG I NOT--2NOT3-- AND 50R7 AND I 4NOTO I 985 I B4B23A TO B4A19A 32.20.74.1 I B4A19 32.20.71.1 I B4B23 32.20.74.1 I B4A19 32.11.12.1 I B1D11 986 I B1D11P TO B4A19D 32.20.74.1 I B4A19 I 987 I B4C15F TO B4A19B 32.20.70.1 I B4C15 I 32.20.74.1 I B4A19 988 I B4A19C STUCK AT MINUS Y I 989 I **RESERVED** 990 I B1E12Q TO B4A19E 32.20.75.1 I B4A19,84B19 32.11.14.1 I B1E12 I B1D10A TO B4B19B 32.11.12.1 I B1D10 32.20.75.1 I B4A19 I 991 I B4B22Q TO B4A19G 32.20.71.1 I B4B22 32.20.75.1 I B4A19.84B19 992 I B1G10Q TO B4A19F 32.11.15.1 I B1G10 I 81D10E TO 84819F I 32.11.12.1 I B1D10 I 993 I B4A19L STUCK AT MINUS Y 1 32.20.75.1 I B4A19

I 994 I ALWAYS GET PUNCH TRANSLATE 1 I 32.20.32.1 I B3E18

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I 32.20.75.1 I B4A20, B4B19, B4A19 995 I B1G10Q TO B4B19A 32.20.75.1 I B4B19 32.11.15.1 I B1G10 996 I B4B22Q TO B4B19D I 32.20.75.1 I B4B19 I 32.20.71.1 I B4B22 I 997 I **RESERVED** I 32.20.75.1 I B4B19 I 998 I B4B19C STUCK AT MINUS Y I 999 I **RESERVED** I1000 I B4B22Q TO B4B19G 32.20.75.1 1 84819 I 32.20.71.1 I 84822 11001 I B1E12Q TO B4B19E I 32.20.75.1 I B4B19 I 32.11.14.1 I BIE12 I1002 I **RESERVED** 11003 I B4B19L STUCK AT MINUS Y I 32.20.75.1 I 84819 11004 I **RESERVED** I1005 I B4A23P TO B4C19C I 32.20.75.1 I 84C19 I 32.20.70.1 I B4A23 32.20.75.1 I B4C19 11006 I B4A23A TO B4C19L 32.20.70.1 I B4A23 11007 I B1F09L TO B4C19B 32.20.75.1 I 84C19 I 32.11.14.1 I B1F09 I1008 I **RESERVED** 11009 I CAN NOT BLOCK PUNCH TRANSLATE I 32.20.75.1 I 84C19 I 2 VIA MINUS Y CHAN REG 1NOTO. I AND 2NOT3 AND 4 I1010 I **RESERVED** I1011 I B1G10E TO B4C19D 32.20.75.1 I B4C19 I 32.11.15.1 I B1G10 I1012 I **RESERVED** I1013 I CAN NOT BLOCK PUNCH TRANSLATE I 32.20.75.1 I B4C19 I 2 VIA MINUS Y CHAN REG I NOT--2NOT3-- AND NOT 6 11014 I **RESERVED** I1015 I **RESERVED** I1016 I **RESERVED** I1017 I **RESERVED** I1018 I **RESERVED** I1019 I **RESERVED** I1020 I **RESERVED** I1021 I **RESERVED**

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1036		32.20.76.1 32.20.70.1	
1037	**RESERVED**		AND COMMISSION WITH COMMISSION WAS COMMISSION TO THE COMMISSION OF
[]	CAN NOT BLOCK PUNCH TRANSLATE B VIA MINUS Y CHAN REG NOT 4 AND 1 AND NOT-2NOT3	32.20.76.1	84821
1039		32.20.76.1 32.11.15.1	1 B1G10
1040		32.20.76.1 32.11.12.1	84821
1041		32.20.76.1 32.20.71.1	
	RESERVEO		
1043	CAN NOT BLOCK PUNCH TRANSLATE B VIA MINUS Y CHAN REG 7 AND O AND NOT-50R6-	32.20.76.1	84821 1
1044		32.20.76.1 32.20.70.1	
		32.20.76.1 32.20.70.1	
1046		32.20.76.1 32.20.70.1	
1047	**RESERVED**		
I -	I CAN NOT NLOCK PUNCH TRANSLATE I 8 VIA MINUS Y CHAN REG INOTO I AND 2NOT3 AND NOT50R7OR NOT	I :	84821

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I	I 6	Ţ	I I
11049 I		I 32.20.77.1 I 32.11.14.1	I B4C21 I
11050 1	I BIG10Q TO B4C21E	I 32.20.77.1 I 32.11.15.1	1 B4C21 I I B1G10 I
1 .	I B1D11A TO B4C21H I OR I B1E12Q TO B4C21G	1 32.20.77.1 1 32.11.12.1 1 32.11.14.1	I B1D11 I
11052 I	I i	I 32.20.77.1 I 32.20.71.1	
11053	I **RESERVED**	I	The state and was one and the state and the
11054 I	I I CAN NOT GET PUNCH TRANSLATE 9 I VIA MINUS Y CHAN REG 4 AND 7 I AND 0 AND NOT 50R6	1 32.20.77.1 1	1 84C21
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11056 I	B4A23D TO B4C21A	I 32.20.77.1 I 32.20.70.1	
	I 84A23A TO 84C21B	I 32.20.77.1 I 32.20.70.1	
I 1058		I 32.20.77.1 I 32.11.15.1	
11059	**RESERVED**	I .	İ
I	I CAN NOT GET PUNCH TRANSLATE 9 I VIA MINUS Y CHAN REG NOT 50R6 I AND 0-1 AND 2NOT3 AND 7		B4C21 I
		I 32.20.77.1 I 32.11.15.1	B4C21 I B1G10 I
•	I B4B22L TO B4C21L	I 32.20.77.1 1 32.20.70.1 1	I B4C21 I I B4B22 I
11063 I		I 32.20.77.1 I 32.11.12.1	B4C21 I
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	I **RESERVED**	I I	İ
I 1066	I CAN NOT GET PUNCH TRANSLATE 9	32.20.77.1	B4C21 I
		I 32.20.77.1 1 I 32.20.71.1	I B4823 I
I 1068		32.20.77.1 1 32.20.70.1	B4C22 I B4C15 I
11069	I **RESERVED**	I 1	
11070 I	I CAN NOT GET PUNCH TRANSLATE 9 I VIA MINUS Y CHAN REG 4NOTO I AND NOT50R60R7		B4C22 I

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	+*RESERVED**	I	
11072	I **RESERVED**	I	I
11073	##RESERVED##	I	
	I **RESERVED**	I	
-	I B4A16C STUCK AT MINUS Y	I 32.20.72.1	I B4A16
11076	##RESERVED*#	I I	
11077	##RESERVED##	I	
11078	##RESERVED##	I	
11079	I **RESERVED**	İ	
11080	**RESERVED**	I .	
11081	B4A18C STUCK AT MINUS Y	1 32.20.73.1	I B4A18
11082	**RESERVED**	I	
11083	I **RESERVED**		
11084	##RESERVED##		
I 1085	B4A11Q STUCK AT MINUS Y	I 32.20.73.1	B4A11
•	**RESERVED**	I	
-	I **RESERVED**	I	
11088	I **RESERVED**	I	
11089	**RESERVED**	Ī	
11090 1	B4C18P STUCK AT MINUS Y	I 32.20.74.1	B4C18
	##RÉSERVED##	I	
1092	**RESERVED**	I	
	RESERVED	I I	
	RESERVED	I	
1095	**RESERVED**	I	
1096	B4B18C STUCK AT MINUS Y	32.20.74.1	84818
1097	**RESERVED**		
1098	**RESERVED**		
1099	**RESERVED**		
1100	**RESERVED**		
1101		I 32.20.32.1 I	
1102	**RESERVED**		
1103	**RESERVED**		
1			

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I	I B4C19 I I B4C19 I I I I I I I I I I I I I I I I I I I
11105 B4C19R STUCK AT MINUS Y	
11108	
11109 **RESERVED**	
I	
11111 B4B21C STUCK AT MINUS Y	
11112 **RESERVED**	
11113 **RESERVED**	
I I	
11115 **RESERVED**	
11116 B4C21P STUCK AT MINUS Y	1 7 0/03
II I1118 I **RESERVED** I I1119 I **RESERVED** I	•1 i B4CZI
I **RESERVED**	-and-man date - I diese cond cond-cond-cond-cond-cond-cond-cond-cond-
I1119 I **RESERVED**	
The same cases were the same cases were cases were cases and cases was cases c	- OTHER COLD - MICH. MIC
I1120 I **RESERVED**	vites control that I make control cont
II	- each state date of the control of
	.1 I B4C22
I **RESERVED** I	The spirit come and the sp
11124 I **RESERVED**	
I1125 I **RESERVED** I	And can see I see that the see
11126 I **RESERVED** I	
11127 I ALWAYS GET PUNCH TRANSLATE 0 I 32.20.31 I I 32.20.74	.1 I B3E18 .1 I B4C18,B4B18,B4A19
11128 I **RESERVED** I	I
I1129 I **RESERVED** I	I
II I1130 I **RESERVED** I	I
I1131 I **RESERVED**	i
I 11132 I **RESERVED** I	i
I I I I I I I I	I
11134 I ALWAYS GET PUNCH TRANSLATE 2 I 32.20.32	.1 I B3E19 .1 I B4C19,B4A20
11135 I **RESERVED** I	•
I1136 I **RESERVED** I	I Tanana and a same and a same a same a same a same a same a same a same a same a same a same a same a same a

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			and the second s
11137	I **RESERVED**	[The way that the property was about the property of the stage daily day the sale was the T
I 1138	I ALWAYS GET PUNCH TRANSLATE 8	32.20.76.1	B4A19,B4B21 I
11139	I **RESERVED**		1
11140	I **RESERVED**		1
	I **RESERVED**		I
I	•	32.20.34.1 32.20.77.1	B3E20 I B4A21,B4C21,B4C22 I
11143	1	i	Ī
11144	FARESERVED # #		Ĩ
11145 1	ALWAYS GET PUNCH TRANSLATE 12	32.20.31.1	•
11146	**RESERVED**		
11147	**RESERVED**	I a	1
11148	The series of the control of the con		CORE-PRO-VENDA CORE-ACCOR-CORE-PRES, NEIR PRESE ARROL (SEE REAL AREA-CES) WHEN ARREST CORE ACCORD.
	ALWAYS GET PUNCH TRANSLATE -11	32.20.73.1	B3E18 I B4A11,B4A18,B4B17,I B4C17 I

4.4 LOG OUT OF ACCUMULATED DATA BY ROUTINE

4.4.1 ROUTINE 01 -CHANNEL REG FLT-

LISTED BELOW IS A SAMPLE OF THE LOG OUT INFORMATION. THE DATA IS PRESENTED IN HEX FORM, 4 BITS PER CHARACTER. THIS SAMPLE REPRESENTS THE DATA ACCUMULATED WITH NO ERRORS.

COL 1 2 3 4 5 6 7 8 9 10

80 08 14 00 00 80 0C 00 00 00
40 08 14 00 00 20 0C 00 00 00
10 08 14 00 00 10 0C 00 00 00
08 08 14 00 00 10 0C 00 00 00
04 08 14 00 00 08 0C 00 00 00
04 08 14 00 00 04 0C 00 00 00
02 08 14 00 00 02 0C 00 00 00
01 08 14 00 00 01 0C 00 00 00
01 08 14 00 00 01 0C 00 00 00
00 08 14 00 00 01 0C 00 00 00
00 08 14 00 00 00 0C 00 00 00
00 08 14 00 00 00 0C 00 00 00

EACH COLUMN IN THE ABOVE TABLE IS DEFINED BELOW.

COLUMN 1 - DATA WRITTEN TO PUNCH BUFFER
COLUMN 2 - PUNCH WRITE CHANNEL END STATUS
COLUMN 3 - PUNCH WRITE DEVICE END STATUS
COLUMN 4 - PUNCH WRITE SENSE DATA
COLUMN 5 - PUNCH WRITE CHECK READ DATA
COLUMN 6 - PUNCH READ STATUS
COLUMN 7 - PUNCH READ STATUS
COLUMN 8 - PUNCH READ SENSE DATA
COLUMN 9 - PUNCH READ CHECK READ DATA
COLUMN 10 - DATA GROUP ERROR SWITCHES
BIT 6 -ON- MEANS BIT DOES NOT TURN ON
BIT 7 -ON- MEANS BIT DOES NOT TURN OFF

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4.4.2 ROUTINE 02 -- CONTROL PROGRAM--

LISTED BELOW IS A SAMPLE OF THE LOG OUT INFORMATION. THE DATA IS PRESENTED IN HEX FORM, 4 BITS PER CHARACTER. THIS SAMPLE REPRESENTS THE DATA ACCUMULATED WITH NO ERRORS. IF AN ERROR IS DETECTED, THE FIRST LINE IN THE TABLE BELOW WILL CONTAIN THE ERROR DATA.

COL 1 2 3 4 5 6 7 8 9 1011 12 13 14 15 16 17 18

31 08 14 00 00 31 0C 00 00 0401 0C 00 00 31 0C 00 00
50 08 14 00 00 50 0C 00 00 2000 0C 00 00 50 0C 00 00
60 08 14 00 00 60 0C 00 01 1000 0C 00 00 60 0C 00 00
F0 08 14 00 00 F0 0C 00 00 0800 0C 00 00 F0 0C 00 00
F1 08 14 00 00 F1 0C 00 00 0400 0C 00 00 F1 0C 00 00
F2 08 14 00 00 F2 0C 00 00 0200 0C 00 0F2 0C 00 00
F3 08 14 00 00 F3 0C 00 00 0100 0C 00 0F2 0C 00 00
F4 08 14 00 00 F3 0C 00 00 0100 0C 00 0F3 0C 00 00
F5 08 14 00 00 F5 0C 00 00 0020 0C 00 0F4 0C 00 00
F5 08 14 00 00 F5 0C 00 00 0020 0C 00 0F5 0C 00 00
F6 08 14 00 00 F5 0C 00 00 0020 0C 00 0F7 0C 00 00
F6 08 14 00 00 F5 0C 00 00 0000 0C 00 0F7 0C 00 00
F6 08 14 00 00 F6 0C 00 00 0000 0C 00 0F7 0C 00 00
F6 08 14 00 00 F8 0C 00 00 0000 0C 00 0F7 0C 00 00
F8 08 14 00 00 F8 0C 00 00 0000 0C 00 0F8 0C 00 00
F9 08 14 00 00 F9 0C 00 00 0000 0C 00 0F9 0C 00 00
40 08 14 00 00 40 0C 00 00 0000 0C 00 00 F9 0C 00 00
31 08 14 00 00 31 0C 00 00 0001 0C 00 00 31 0C 00 00

EACH COLUMN IN THE ABOVE TABLE IS DEFINED BELOW.

COLUMN 1 - DATA WRITTEN TO PUNCH BUFFER 2 - PUNCH WRITE CHANNEL END STATUS COLUMN COLUMN 3 - PUNCH WRITE DEVICE END STATUS 4 - PUNCH WRITE SENSE DATA COLUMN 5 - PUNCH WRITE CHECK READ DATA COLUMN 6 - PUNCH READ DATA 7 - PUNCH READ STATUS 8 - PUNCH READ SENSE DATA COLUMN COLUMN 9 - PUNCH READ CHECK READ DATA COLUMN COLUMN 10 - READER WRITE DATA -1ST BYTE OF COL BINARY COLUMN 11 - READER WRITE DATA -2ND BYTE OF COL BINARY COLUMN 12 - READER WRITE STATUS COLUMN 13 - READER WRITE SENSE DATA COLUMN 14 - READER WRITE CHECK READ DATA COLUMN 15 - READER READ DATA COLUMN 16 - READER READ STATUS COLUMN 17 - READER READ SENSE DATA COLUMN 18 - READER READ CHECK READ DATA

4.4.3 ROUTINE 03 -- BUFFER ADDR FLT--

LISTED BELOW IS A SAMPLE OF THE LOG OUT INFORMATION.

DATA IS PRESENTED IN HEX FORM, 4 BITS PER CHARACTER.

THIS

SAMPLE REPRESENTS A SOLID FAILURE FOR BUFFER ADDRESS

REGISTER UNITS -A-.

IN THE ABOVE PRINTOUTS OF DIAGNOSTIC CHECK DATA, XXX REPRESENTS THE READER ADDRESS AND YYY REPRESENTS THE PUNCH ADDRESS.

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EACH DIAGNOSTIC CHECK READ IS PERFORMED WITH A CCW COUNT OF 100 -DECIMAL. IF THE READER/PUNCH CIRCUITS ARE FUNCTIONING PROPERLY. THE RESIDUAL COUNT SHOULD BE 020 -ONLY BO COLUMNS SHOULD BE READ. IN THE ABOVE PRINTOUT, 90 BYTES OF DIAGNOSTIC CHECK READ DATA ARE DISPLAYED FOR EACH DEVICE. IT IS TO BE NOTED THAT ONLY ADDRESS CHECKS WILL BE INDICATED - ALL OTHER DIAGNOSTIC CHECK READ BITS ARE ELIMINATED BY THE PROGRAM.

4.4.4 ROUTINE 04 -- READER TRANSLATOR FLT--

LISTED BELOW IS A SAMPLE OF THE LOG OUT INFORMATION. THIS SAMPLE REPRESENTS THE DATA ACCUMULATED WITH NO ERRORS. A BRIEF DESCRIPTION OF EACH COLUMN IS INDICATED BELOW.

1. DIAG WRITE DATA

HEX - SINCE A DIAGNOSTIC WRITE TO THE READER BUFFER IS A COLUMN BINARY WRITE, TWO BYTES, AS INDICATED, ARE REQUIRED TO LOAD ONE READER BUFFER POSITION. THESE TWO BYTES ARE REPEATED THROUGHOUT A 160 BYTE WRITE FIELD IN AN ATTEMPT TO WRITE ALL 80 READER BUFFER POSITIONS WITH IDENTICAL DATA. A TOTAL OF 81 SEPARATE WRITES ARE PERFORMED WITH EACH WRITE USING DIFFERENT DATA AS INDICATED IN EACH ROW.

HOLLERITH - THIS INDICATES THE READER BUFFER DATA REGISTER LATCHES WHICH WOULD BE SET BY TWO HEX BYTES INDICATED IN THE SAME ROW.

2. READ DATA

ACT - THIS IS THE ACTUAL DATA READ FROM THE READER BUFFER AFTER THE CORRESPONDING WRITE.

EXPD - THIS IS THE EXPECTED READER READ DATA

3. SENSE DATA

ACT - THIS IS THE READER SENSE BYTE OBTAINED AFTER THE CORRESPONDING READ. REFER TO THE APPENDIX FOR SENSE BYTE INFORMATION.

EXPD - THIS IS THE EXPECTED READER SENSE BYTE.

4. CHECK READ DATA

ACT - THIS IS THE READER DIAGNOSTIC CHECK READ DATA OBTAINED AFTER THE CORRESPONDING READ. REFER TO THE APPENDIX FOR DIAGNOSTIC CHECK READ INFORMATION.

EXPD - THIS IS THE EXPECTED READER DIAGNOSTIC CHECK READ DATA.

AN ASTERISK WILL PRECEDE EACH ROW WHERE AN ERROR IS DETECTED. AN ERROR IS DETECTED WHEN THE ACTUAL AND EXPECTED RESULTS ARE NOT EQUAL.

I DIAG WRITE DATA	I READ DATA		CHECK READ DATA
I I HEX- I -HOLLERITH-	T ACT I EXPD	I ACT I EXPD	ACT I EXPD
1E00 E012 0F00 0123	A3 A3 E3 E3	08 08 08 08	00 00 00 00

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0014 5	7 F7	F7	08	08	00	00
0018 56	6 F7	F7	. 08	08	00	00
0024 4	7 F7	F7	08	08	00	- 00
0030 45	F5	F5	08	08	00	00
0028 4	6 F6 .	F6	08	∘≤08	00	00
0204 2	7 F7	F7	08	08	00	00
0208 2	6 F6	F6	08	08	00	00
0210 2 5	F7	F7	08	08	00	00
0220 2 4	F6	F6	80	. 08	00	00
0300 23	F3	F3	08	08	00	00
0108 3	6 F7	F7	80	08	. 00	00

4.4.5 ROUTINE 05 -- PUNCH TRANSLATOR FLT--

LISTED BELOW IS A SAMPLE OF THE LOG OUT INFORMATION. THE DATA IS PRESENTED IN HEX FORM, 4 BITS PER CHARACTER. THIS SAMPLE REPRESENTS THE DATA ACCUMULATED WITH NO ERRORS.

SAMPLE	KEP	K E 3 E	M12 1	HE UA	IA AC	LUMUL
COL	1 :.	2	3	4	5	6
	00	00	00	00	00	00
	01	บด	00	01	00	00
	02	00	0.0	02	00	00
	03	.00	00	03	0.0	00
	04	00	00.	04	.00	00
	05	00	00	05	00	00
	06	00	00	06	00	00
	07	00	00	07	00	00
	80	00	.00	08	00	00
	09	00	00	09	00	00
	OA .	00	00	OA	00	00
	10	00	00	10	00	00
	11.	00	00	11	00	00
	19	.00	00	19	00	0.0
	1A	00	00	1A	00	00
	20 : .	00	00	20	0.0	00
	21	00	00	21	00	00
	22	00	00	22	00	00
	29	00	0.0	29	00	00
	2A.	00	00	2A	0.0	00
	30	00	003	` 30	00	00
	40	00	00	40	00	00
	41	00	00	41	00	00
	42	00	00	42	00	00
	48	00	00	48	00	00
	49	00	.00	49	00	00
	4A	00	. 00	44	00	00
	50	00	00	50	00	00
	51	00	00	51	00	00
	58	00	00	58	00	00
	59	00	00	5.9	00	00
	60	00	0.0	60	00	00
	61	00	00	61	00	00
	62	00	00	62	00	00
	63	00	00	63	00	00.
	68	00	00	68	00	00
	6A -	00	.00	6A	00	00
	68	00	00	6B	00	00
	6E	00	00	6E	00	00
	70	00	00	70	00	00
	72	00	00	72	00	00
	78	00	00	78	0.0	00
	7A	00	00	7A	00	00
	80	00	00	80	00	00
	81	00	00	81	00	-00
	82	07	00	82	00	00
	88 89	00	00	88 89	00	00
	U7	UU.	vv	0.7	UU	

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A9 C0 C1 C2 C8 CA D0 D2 D8 DA EΒ 00 00 00 .00 00 00 00 FA 00

EACH COLUMN IN THE ABOVE TABLE IS DEFINED BELOW.

COLUMN 1 - DATA WRITTEN TO PUNCH BUFFER COLUMN 2 - PUNCH WRITE SENSE DATA COLUMN 3 - PUNCH WRITE CHECK READ DATA COLUMN 4 - PUNCH READ DATA COLUMN 5 - PUNCH READ SENSE DATA COLUMN 6 - PUNCH READ CHECK READ DATA

NOTE EACH ROW IN THE ABOVE TABLE THAT IS IN ERROR WILL BE PRECEEDED BY AN ASTERISK. AN ERROR IS DETECTED WHEN THE PUNCH WRITE AND READ DATA ARE NOT EQUAL AND/OR WHEN THE SENSE OR CHECK READ DATA IS NOT ZERO.

5. COMMENTS

5.1 PROGRAM PHILOSOPHY AND ASSOCIATED COMMENTS

THE BASIC PHILOSOPHY EMPLOYED BY THIS PROGRAM IS TO -- FIRST-AREA ISOLATE A SOLID DATA PATH FAILURE WITHIN THE 2821/2540 ATTACHMENT, AND -- SECOND-- FURTHER ISOLATE THE FAILURE TO PARTICULAR CIRCUIT-S-. IN ORDER TO UTILIZE THIS PHILOSOPHY WITH THE EXISTING MAIN STORAGE SIZE LIMITATIONS, IT WAS NECESSARY TO EMPLOY THE PROGRAM OVERLAY CONCEPT. EACH OVERLAY --ROUTINE-- IS DESCRIBED IN DETAIL BELOW.

5.2 DESCRIPTION -- ROUTINE 01, CHANNEL REG FLT--

THE PRIMARY OBJECTIVE OF THIS ROUTINE IS TO CIRCUIT ISOLATE A SOLID FAILURE IN THE CHANNEL REGISTER CIRCUITS WITHIN THE READER! PUNCH ATTACHMENT OF THE 2821.

THIS ROUTINE ACCOMPLISHES ITS DBJECTIVE BY INVESTIGATING THE EIGHT CHANNEL REGISTER BITS - 0, 1, 2, 3, 4, 5, 6, 7. WITH EACH OF THESE LINES MADE ACTIVE, ONE AT A TIME, THE FOLLOWING SEQUENCE OF OPERATIONS ARE PERFORMED-

1. WRITE PUNCH BUFFER
A. SENSE I/O -- IF UNIT CHECK STATUS--

B. DIAGNOSTIC CHECK READ

2. READ PUNCH BUFFER

A. SENSE I/O -- IF UNIT CHECK STATUS--

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B. DIAGNOSTIC CHECK READ

THE INFORMATION OBTAINED BY EACH OF THE ABOVE OPERATIONS IS SAVED IN MAIN STORAGE, AND IS SHOWN IN DETAIL IN THE SECTION ON PRINTOUTS.

AFTER ALL DATA HAS BEEN ACCUMULATED, IT IS INTERROGATED BY AN ANALYSIS ROUTINE. AN OUTPUT MESSAGE WILL INDICATE THE RESULTS OF THIS ANALYSIS AS AN ERROR NUMBER OR --CHANNEL REG OK--. IF AN ERROR NUMBER IS INDICATED, THE OPERATOR MUST REFER TO SECTION AN ERROR NUMBER IS INDICATED, THE OPERATOR MUST REFER TO SECTION 4.3.2 OF THIS DESCRIPTION FOR DETAILED INFORMATION CONCERNING THE ERROR. IF A CHANNEL REGISTER ERROR IS DETECTED, ALL REMAINING ROUTINES WILL BE BYPASSED. IF NO ERRORS ARE DETECTED, ROUTINE OF WILL BE RUN. 02 WILL BE RUN.

THE LOG OUT OF DATA ACCUMULATED BY THIS ROUTINE IS DESCRIBED IN SECTION 4.4.1 OF THIS DESCRIPTION. SECTION SENSE SWITCH 2 MUST BE SET TO 1 TO OBTAIN THIS LOG OUT.

5.3 DESCRIPTION -- ROUTINE 02, CONTROL PROGRAM--

THE PRIMARY OBJECTIVE OF THIS ROUTINE IS TO AREA ISOLATE A SOLID FAILURE WITHIN THE 2540 ATTACHMENT OF THE 2821. THESE AREAS ARE DEFINED BELOW--

- READ/PUNCH BUFFER DATA REGISTER BUFFER ADDRESS REGISTER READ/PUNCH BUFFER, INHIBIT LINE, AND SENSE AMPS
- READ TRANSLATOR
- READ TRANSLATE CHECK CIRCUITRY
- PUNCH TRANSLATOR
- PUNCH TRANSLATE CHECK CIRCUITRY

NOTE -- THE READ AND PUNCH TRANSLATORS ARE NOT COMPLETELY TESTED BY THIS ROUTINE -- ONLY COMMON LINES TO AND FROM EACH TRANSLATOR ARE INVESTIGATED.

THIS ROUTINE ACCOMPLISHES ITS OBJECTIVE BY INVESTIGATING THE THIRTEEN COMMON DATA LINES --P, 12, 11, 0, 1, AND 2 THRU 9--WITHIN THE 2540 ATTACHMENT. WITH EACH OF THESE DATA LINES MADE ACTIVE, ONE AT A TIME, THE FOLLOWING SEQUENCE OF OPERATIONS ARE PERFORMED WITH A CCW COUNT EQUAL TO ONE.

- 1. WRITE PUNCH BUFFER

 A. SENSE I/O -- IF UNIT CHECK STATUS--
 - B. DIAGNOSTIC CHECK READ
 - READ PUNCH BUFFER
 - SENSE I/O -- IF UNIT CHECK STATUS--
- DIAGNOSTIC CHECK READ
- 3. WRITE READER BUFFER A. SENSE I/O -- IF UNIT CHECK STATUS--
- DIAGNOSTIC CHECK READ
- 4. READ READER BUFFER
 - A. SENSE I/O B. DIAGNOSTIC CHECK READ

THE INFORMATION OBTAINED BY EACH OF THE ABOVE OPERATIONS IS SAVED IN MAIN STORAGE, AND IS SHOWN IN DETAIL IN SECTION 4.4.2 OF THIS DESCRIPTION.

AFTER ALL DATA HAS BEEN ACCUMULATED, IT IS INTERROGATED BY AN ANALYSIS ROUTINE. THE RESULTS OF THIS ANALYSIS WILL BE INDICATED AS AN ERROR NUMBER OR NO-ERRORS-DETECTED. IF AN ERROR NUMBER IS INDICATED, THE C.E. MUST REFER TO SECTION 4.3.2 FOR DETAILED

IF AN ERROR IS DETECTED BY THIS ROUTINE, AN AUTOMATIC SEARCH FOR A ROUTINE TO CIRCUIT ISOLATE THE FAULT WILL OCCUR. IF NO

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ERRORS ARE DETECTED, ROUTINE 03 WILL BE BYPASSED.

THE LOG OUT OF DATA ACCUMULATED BY THIS ROUTINE IS DESCRIBED IN SECTION 4.4.2 OF THIS DESCRIPTION. SECTION SENSE SWITCH 2 MUST BE SET TO 1 TO OBTAIN THIS LOG OUT.

DESCRIPTION -- ROUTINE 03, BUFFER ADDR FLT--

THE PRIMARY OBJECTIVE OF THIS ROUTINE IS TO CIRCUIT ISOLATE A SOLID FAILURE WITHIN THE 2821 READ, PUNCH, AND BUFFER ADDRESS REGISTERS. THIS OBJECTIVE IS ACCOMPLISHED IN THE FOLLOWING

- 1. PERFORM TWO DIAGNOSTIC CHECK READS TO THE READER, AND
- PERFORM TWO DIAGNOSTIC CHECK READS TO THE READER, AND SAVE THE CCW COUNT AND DATA OF THE SECOND READ.
 PERFORM TWO DIAGNOSTIC CHECK READS TO THE PUNCH, AND SAVE THE CCW COUNT AND DATA OF THE SECOND READ.
 FILTER OUT ALL BUT ADDRESS CHECKS FROM THE READ DATA.
 DETERMINE IF READ, PUNCH, OR BUFFER ADDRESS REGISTER PROBLEM BY ANALYZING THE SAVED DATA.
- 5. CIRCUIT ISOLATE PROBLEM IN FAULTY ADDRESS REGISTER BY COMPARING DIAGNOSTIC CHECK READ DATA TO PRE-DETERMINED
- ERROR PATTERNS.
- 6. PRINT APPROPRIATE ERROR NUMBER

THE C.E. CAN THEN REFER TO SECTION 4.3.3 OF THIS DESCRIPTION FOR DETAILED INFORMATION OF THE PROGRAM ANALYSIS.

THE LOG OUT OF DATA ACCUMULATED BY THIS ROUTINE IS DESCRIBED IN SECTION 4.4.3 OF THIS DESCRIPTION. SECTION SENSE SWITCH 2 MUST BE SET TO 1 TO OBTAIN THIS LOG OUT.

DESCRIPTION -- ROUTINE 04, READER TRANSLATOR FLT-

NOTE THIS ROUTINE WILL BE RUN ONLY WHEN ROUTINE 02 INDICATES ERROR 005, 007, 011, 018, 022, OR NO ERROR INDICATION.

THE OBJECTIVE OF THIS ROUTINE IS TO CIRCUIT ISOLATE A SOLID FAILURE WITHIN THE FOLLOWING AREAS-

- 1. BUFFER DATA REGISTER
- 2. INVALID CARD CODE CHECKING CIRCUITS
- 3. READER TRANSLATOR

THIS OBJECTIVE IS ACCOMPLISHED BY PROVIDING TO THE ABOVE AREAS THE REQUIRED INPUTS TO EXERCISE ALL CIRCUITS. THE OUTPUTS ARE
THEN INTERROGATED FOR A UNIQUE PATTERN WHICH DESCRIBES A
PARTICULAR CIRCUIT FAILURE. TO PROVIDE THE INPUTS AND OBTAIN THE
OUTPUTS, THE FOLLOWING SEQUENCE OF OPERATIONS ARE PERFORMED—

- 1. DIAGNOSTIC WRITE TO READ BUFFER THIS WRITE USES A CCW COUNT OF 160, DECIMAL, WHERE EIGHTY IDENTICAL COLUMN BINARY CHARACTERS WILL BE WRITTEN.
- 2. READ READER BUFFER
- 3. SENSE I/O
- 4. DIAGNOSTIC CHECK READ

THE ABOVE SEQUENCE OF OPERATIONS IS REPEATED EIGHTY-ONE TIMES. FOR EACH REPEAT, THE DIAGNOSTIC WRITE USES DIFFERENT DATA. THIS DATA IS INDICATED IN SECTION 4.4.4 OF THIS DESCRIPTION.

THIS ROUTINE PROVIDES OUTPUT MESSAGES IN THE FORM OF AN ERROR NUMBER. THE C.E. IS REQUIRED TO REFERENCE THIS ERROR NUMBER TO SECTION 4.3.5 OF THIS DESCRIPTION FOR DETAILS CONCERNING THE FAILURE. ADDITIONAL OUTPUT IS PROVIDED IN THE FORM OF A LOG OUT
--SEE SECTION 4.4.4--. THIS LOG OUT IS PROVIDED ONLY IF SECTION
SENSE SWITCH 02 IS SET TO 1 PRIOR TO RUNNING THE ROUTINE.

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COMMAND REJECT INTERVENTION REQUIRED

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5.6 DESCRIPTION -- ROUTINE 05, PUNCH TRANSLATOR FLT-

NOTE THIS ROUTINE WILL BE RUN ONLY WHEN ROUTINE 02 INDICATES ERR 019, ERR 024, ERR 025, OR NO ERROR INDICATION.

THE OBJECTIVE OF THIS ROUTINE IS TO CIRCUIT ISOLATE A SOLID FAILURE WITHIN THE PUNCH TRANSLATOR. THIS IS ACCOMPLISHED BY PROVIDING TO THE PUNCH TRANSLATOR THE REQUIRED INPUTS TO EXERCISE ALL CIRCUITS. THE OUTPUTS ARE THEN INTERROGATED FOR A UNIQUE PATTERN WHICH DESCRIBES A PARTICULAR CIRCUIT FAILURE. TO PROVIDE THE INPUTS AND OBTAIN THE OUTPUTS, THE FOLLOWING SEQUENCE OF OPERATIONS ARE PERFORMED-

1. WRITE PUNCH BUFFER

THIS WRITE USES A CON COUNT OF 80, DECIMAL, WHERE EIGHTY IDENTICAL CHARACTERS WILL BE WRITTEN.
2. SENSE I/O TO PUNCH

- 3. DIAGNOSTIC CHECK READ TO PUNCH
- 4. READ PUNCH BUFFER
- 5. SENSE I/O TO PUNCH
- 6. DIAGNOSTIC CHECK READ TO PUNCH

THE ABOVE SEQUENCE OF OPERATIONS IS REPEATED SEVENTY-ONE TIMES. FOR EACH REPEAT, THE PUNCH WRITE USES DIFFERENT DATA. THIS DATA IS INDICATED IN SECTION 4.4.5 OF THIS DESCRIPTION.

THIS ROUTINE PROVIDES OUTPUT MESSAGES IN THE FORM OF AN ERROR NUMBER. THE C.E. IS REQUIRED TO REFERENCE THIS ERROR NUMBER TO SECTION 4.3.6 OF THIS DESCRIPTION FOR DETAILS CONCERNING THE FAILURE. ADDITIONAL OUTPUT IS PROVIDED IN THE FORM OF A LOG OUT -- SEE SECTION 4.4.5--. THIS LOG OUT IS PROVIDED ONLY IF SECTION SENSE SWITCH 02 IS SET TO 1 PRIOR TO RUNNING THE ROUTINE,

6. APPENDIX

6.1 READER/PUNCH COMMAND CODES

VALID COMMANDS TO THE READER/PUNCH. NOT SHOWING STACKER SELECT OR OTHER VARIOUS OPTIONS THAT ARE AVAILABLE. COMMAND CODE BITS 0123 4567 READ - - 0 X X X 1 0 02 ZERO STATE WHERE X FORMS VARIATIONS ON OPTIONS AND - REPRESENTS MODIFIERS WHICH MAY BE COMBINED.

6.2 SENSE BYTE INFORMATION

- . ONE SENSE BYTE
- MEANING

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BUS DUT CHECK EQUIPMENT CHECK DATA CHECK NOT USED UNUSUAL COMMAND SEQUENCE NOT USED 6.3 DIAGNOSTIC CHECK READ INFORMATION

> CHECK INFORMATION TO THE CPU. THE SIGNALS RETURNED ARE AS FOLLOWS-BIT READER PUNCH NOT USED NOT USED NOT USED NOT USED XU CHECK PLANE NOT USED XU CHECK PLANE XL CHECK PLANE XL CHECK PLANE BUFFER PARITY CHECK BUFFER PARITY CHECK

READ TRANSLATE CHECK PUNCH TRANSLATE CHECK READER BUFFER ADDRESS PUNCH BUFFER ADDRESS CHECK

BITS 0,1, AND 2 SHOULD ALWAYS BE ZERO. BITS 3,4, AND 5 CAN APPEAR IN ANY BYTE TO INDICATE THE POSITION IN ERROR. BIT 6 WILL APPEAR ONLY IN THE FIRST BYTE OF THE CHECK READ TRANSFER AND INDICATE A TRANSLATE CHECK IN THE PREVIOUS DATA TRANSFER. BIT 7 WILL APPEAR IN THE FIRST BYTE OF THE TRANSFER IF THE ERROR OCCURRED ON A PREVIOUS CYCLE OR IF THE ERROR OCCURRED ON THE FIRST BYTE OF TRANSFER. IT WILL APPEAR IN SUCCEEDING BYTES IF ERRORS RE-OCCUR . DURING THE TRANSFERS. **********************

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CHECK PROBLEMS. DIAGNOSTIC CHECK READ WILL PERFORM A TRANSFER OF

THIS COMMAND PROVIDES FURTHER LOCALIZATION OF READER AND PUNCH

001000

001003

001004

001008

00100A 00100C

00100D

00100E

001010

001015

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001030 001038

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MACHINE CHECK RETURN PSW

P/N 840258 PAGE 1 IBM MAINTENANCE DIAGNOSTIC PROGRAM

* F8041 2821 SCAN/2540 READER/PUNCH

P/N 840258 PAGE 1A

PAGE

* F8041 2821 SCAN/2540 READER/PUNCH F8041 CHANNEL REG FLT -ROUTINE OVERLAY 01-

> 8041 TITLE F8041 CHANNEL REG FLT -ROUTINE OVERLAY 01-1. CHANNEL REG FLT -ROUTINE OVERLAY 01MODIFIED THE SUB-ROUTINE WHICH DETECTS THAT A CHANNEL
> REGISTER LATCH IS ALWAYS IN THE -ON- STATE. 2. CONTROL PROGRAM -ROUTINE OVERLAY 02-MODIFIED TO SELECT ROUTINE OVERLAY 04 -READER TRANSLATOR FLT- AND ROUTINE OVERLAY 05 -PUNCH TRANSLATOR FLT. THESE TWO ROUTINES ARE NEW ADDITIONS TO THIS PROGRAM PACKAGE. ENGINEERING CHANGE PREREQUISITES 1. HARDWARE 2821 CONTROL UNIT WITH 2540 ATTACHMENT AT MINIMUM E.C. LEVEL 124265 2. PROGRAM ************************* XF8041 START 4096 001000 USING *,15 RESIDENT ROUTINES *************************** SECTION SENSE SWITCH USAGE SSW 0, LOC X004, BIT 0 - LOOP ON START I/O
> SSW 1, LOC X004, BIT 1 - USE UTILITY SCOPE ROUTINE
> SSW 2, LOC X004, BIT 2 - LOG OUT DATA TABLE 6, LOC XOO4, BIT 6 - PRINT TITLE SECTION PREFACE ****************************** PROGRAM & SECTION NUMBER
> THIS FIELD MUST CONTAIN ZEROS XL3'F80410' F80410 SECST DC XL1'0' 0000000 SNSW DC XL4 0 SENSE SWITCHES DC DC XL2*0* RESERVED ICM 0000 XL2'0' INTERRUPTION CONDITION MASK NIOU DC FLAGS1 DC XL1'0' RESERVED NUMBER OF I/O UNITS THAT CAN BE TEST SECTION FLAGS, EXCLU. CPU INTERRUPT HANDLING FLAG. 02 XL1'02' 80 XL1'80' XL1'0' 010400000F INPSW DC X'010400000F' INITIAL PSW STARTING ADDRESS FOR ROUTINE 01 - THIS ADDRESS IS CHANGED FOR EACH OVERLAY 00186C AL3(RTNO1) 000000000000000 5XL8'0' OLD PROGRAM STATUS WORDS 000000000000000 000000000000000 0000000000000000 00000000000000000 0000000000000000 XL8'0' CHANNEL STATUS WORD COMMAND ADDRESS WORD DC XL4'0' 000000000000000000 XL12'0' RESERVED 000000 0000000000000000 010400000F EXTR DC SVRPSW DC DC XL8'0' EXTERNAL RETURN PSW X • 010400000F • 00171C AL3(EXIT2) RETURN ADDRESS 0000000000000000 PIRPSW DC XL8'0' PROGRAM INTERRUPT RETURN PSW

107D	001570		IORADR	nc .	AL SECTOINT		1.40 DETUCK DOLL THETOLETICK LODGES
					AL3(3101N1)		I/O RETURN PSW INSTRUCTION ADDRESS
	25.50		******	REGIS	STER DUMP AREA	*******	*****************************
						******	************
.080	<i>:</i>			DS	96C		SUPERVISOR REGISTER DUMP AREA

					ION PREFACE UNIT		
0E0	81					*******	**************************************
0E1	00		UNITI	DC	XL1'81' XL1'00'		UNIT TYPE - UNIT 1 -READER I/O OPTIONS
0E2	8000		UNIADR		XL2'8000'		FLAGS AND ACTUAL UNIT ADDRESS
VL2			*	-	XLZ 0000		TEROS AND ACTUAL CHIT ADDRESS
.0E4	82		UNIT2	DC	XL1'82'		UNIT TYPE - UNIT 1 -PUNCH
L0E5	00			DC	XL1'00'		I/O OPTIONS
0E6	8000		UN2ADR		XL2'8000'		FLAGS AND ACTUAL UNIT ADDRESS
			*****	****			**************************
			*		VARIABLE FIELD		
			*****				**************************************
	•		******	VARIA	NDLES FUR SCUPIN	IG RUUIII	4E - DOODEE WORD DOONDARY
.0E8	00 001234 0000 00	00	SCPCCM	CCW	X'00'.SCPDAT.Y	(1001-00	SCOPE ROUTINE CCW

			*	VARIA	BLES FOR SCOPIN	IG ROUTIN	NE - WORD BOUNDARY
			*****	****	**********	******	**********
OFO.	00000000		SCPRK1	DC	4F'00'		GR9 THRU GR12 SAVED HERE
0F4	00000000						
0F8	00000000						
.0FC .100	00000000		SCDDKA	DC	F * 00 *		HODY ADEA
100	0000000	100			.***********		
		4			BLES FOR SIO RO		

104	0000000		SIDVR1	DC	9F'00'		GR1 THRU GR9 SAVED HERE BY SIO
108	0.0000000		-				
10C	0000000						
110	00000000	100					
114	00000000	1.0					
1118 111C	00000000 0000000				1.0		
.120	00000000						
1124	00000000						
1128	00000000		SIOVR2	DC	F'00'		SEC PREF CAW SAVED HERE BY \$10
112C	00000000		SIOVR3	DC	2F 100 1		CSW SAVE AREA FOR ORIG SIO
1130	0000000						
1134			SIOVR4		F*00*		CC SAVED HERE FOR ORIG \$10
1138	0000000		SIOVR7		F'00'		CC SAVED HERE FOR SENSE I/O
113C	00000000		SIOVR8	DC	2F • 00 •		CSW SAVE AREA FOR SENSE I/O
.140 .144	00000000	100	0.0000	0.0	2F'00'		
148	00000000 00000000		SIOVR9	DC	27.00.		
140	00000000		*****	****	******	*******	*******
					BLES FOR SIO RO		

14C	00		CAWKEY		X * 00 *		CAW KEY STORED HERE
14D	00	_ '	SIOSWS		X . 00 .		SIO SWITCHES
14E	C961D640C1C4C4D94	0	SIDMS1	DC	C'I/O ADDR XXX	CAW!	CCO BUT NO INTERRUPT
157	E7E7E740C3C1E6	.		00	C. VVVVVVVV	T CC.	
15E	40E7E7E7E7E7E7E7E	1		DC	C • XXXXXXXX GO	יון נוני	
167 16E	40C7D6E340C3C3 F040C2E4E340D5D64	0		DC	C'O BUT NO INT	FRRIII	
177	C9D5E3C5D9D9E4	• . ,		50	C C DOI NO INI	ELVO.	
17E	D7E3			DC	C'PT'	•	
180	000000		SIOVR5		XL3'00'		BCD ADDR OF UNIT ADDRESSED BY SID
183	00		SIOVR6		X'00'		The state of the s
184	C961D640C1C4C4D94	0	SIDMS2		C'I/O ADDR XXX	CAW!	CC1 MESSAGE
.18D	E7E7E740C3C1E6		+ - 1				
194	40676767676767676	7		DC	C. XXXXXXXX GO	T CC.	
19D	40C7D6E340C3C3		1	,			

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IBM MAINTENANCE DIAGNOSTIC PROGRAM	P/N 840258 PAGE 2	IBM MAINTENANCE DIAGNOSTIC PROGRAM	P/N 840258 Page 2a
* F8041 2821 SCAN/2540 READER/PUNCH F8041 CHANNEL REG FLT -ROUTINE OVERLAY 01-		* F8041 2821 SCAN/2540 READER/PUNCH F8041 CHANNEL REG FLT -ROUTINE OVERLAY 01-	
0011A4 F140C3E2E640E2E3C1 DC 0011AD E3E4E240E7E7E7 0011B4 E740E2D5E240E7E740 DC	C 1 CSW STATUS XXX	001338 47 10 F 5DE BC ALLON, SI0104 00133C 91 30 F 134 TM SIOVR4, X*30*	BR IF YES SEE IF SIO CC WAS ZERO
0011BD 40404040 0011C1 C961D640C1C4C4D940 SIOMS3 DC	C'X SNS XX	001340 47 50 F 36A BC ANYON, SIDBOO 001344 0A DB SVC X'DB' 001346 91 80 F 004 TM SNSW, X'80'	BR IF NO WAIT FOR I/O INTERRUPT BR IF SEC SS OO IS 1 - LOOP SIO
0011CA E7E7E740C3C1E6 0011D1 40E7E7E7E7E7E7E7 0011DA 40C7D6E340C3C3	C. XXXXXXXX GOT CC.	00134A 47 10 F 3BE BC ALLON, SIDCOA 00134E OA DD SVC X*DD*	CONVERT CAW TO EBCDIC
0011E1 F140C3E2E640E7E7E7 DC 0011EA E7E7E7E7E7E7 0011F1 E7E7E7E7E7 DC	C'1 CSW XXXXXXXXXX	001350 0004 DC AL2(4) 001352 0048 DC AL2(CAW-SECST) 001354 015F DC AL2(SIDMS1&17-SECST)	NO. OF HEX BYTES IN CAW HEX DATA ADDR EBCDIC DATA ADDR IN OUTPUT MESSAGE
0011F7 00 SENSE DC 0011F8 0000 STATSV DC 0011FA 00000000000000 CSWAG DC 001202 C4C9C1C740C3D240D9 MESS1 DC 00120B C440E4D5C9E340	X'00' XL2'00' 2ND STATUS SAVED HERE XL8'00' AGGREGATE CSW SAVED HERE C'DIAG CK RD UNIT "	001356 D2 02 F 157 F 180 MVC SIOMS1&9(3),SIOWR5 00135C 92 F0 F 16E MVI SIOMS1&32,X'F0' 001360 0A D0 SVC X'DO' 001362 40 DC X'40'	SET I/O ADDR IN OUTPUT MESSAGE SET CCO IN OUTPUT MESSAGE PRINT GOT CCO BUT NO INTERRUPT PRINT PROG NO. PRIOR TO MSG TREAT AS ERROR
001212 F0F0F040D5D6E340D6 DC 00121B D26B	C*000 NOT OK,*		DO NOT CHAIN DO NOT RESTORE PRINT ON NORMAL OUTPUT DEVICE
00121D 40E6C9D3D340E3D9E8 DC 001226 40C1C7C1C9D5 * 00122C 00 DC	C. WILL TRY AGAIN. X.00. AREA TO SAVE PRINTABLE READER ADDR	001363 32 DC X'32' 001364 F14E DC AL2(SIOMS1-BASE®) 001366 47 F0 F 3BE BC ALWAYS, SIOCOA	NO. OF CHAR IN MSG (50) MESSAGE ADDRESS GO TRY SIO AGAIN
00122D 000000 UARD DC 001230 00 DC 001231 000000 UAPU DC	X'00' AREA TO SAVE PRINTABLE READER ADDR XL3'0' ,, X'00' AREA TO SAVE PRINTABLE PUNCH ADDR XL3'0' ,,	00136A 91 30 F 134 SIOBOO TM SIOVR4,X'30' 00136E 47 40 F 396 BC MIXED,SIOCOO 001372 91 80 F 004 TM SNSW,X'80' 001376 47 10 F 30C BC ALLON.SIOAOO	SEE IF SIO CC WAS 3 BR IF NO BR IF SEC SS OO IS 1 - LOOP SIO
+ VAR	**************************************	00137A	CONVERT CAW TO EBCDIC NO. OF HEX BYTES IN CAW
001234 000000000000000000000000000000000000	XL180°0° SCOPE ROUTINE DATA FIELD	00137E	HEX DATA ADDR EBCDIC DATA ADDR IN OUTPUT MESSAGE SET I/O ADDR IN OUTPUT MESSAGE SET CC 3 IN OUTPUT MESSAGE GOT CC3 ON SIO PRINT PROG NO. PRIOR TO MSG TREAT AS ERROR
001273 0000000000000000 00127C 0000000000000000 001285 0000000000000000 00128E 000000000000000 001297 0000000000000000 0012A0 000000000000000 0012A9 0000000000000000 0012B2 000000000000000		00138F 21	DO NOT CHAIN DO NOT RESTORE PRINT ON NORMAL OUTPUT DEVICE NO OF CHAR IN MSG (33) MESSAGE ADDRESS GO TRY SIO AGAIN SEE IF SIO CC WAS 2 BR IF NO
0012BB 000000000000000 0012C4 000000000000000 0012CD 00000000000000 0012D6 000000000000000 0012DF 00000000000000000		00139E 91 80 F 004 TM SNSW,X'80' 0013A2 47 10 F 3BE BC ALLON,SIOCOA 0013A6 OA DD SVC X'DD' 0013A8 0004 DC AL2(4) 0013AA 0048 DC AL2(CAW-SECST)	BR IF SEC SS 00 IS 1 - LOOP SIO ONVERT CAW TO EBCDIC NO. OF HEX BYTES IN CAW HEX DATA ADDR
**************************************	*************************************	0013AC	EBCDIC DATA ADDR IN OUTPUT MESSAGE SET I/O ADDR IN OUTPUT MESSAGE SET CC 2 IN OUTPUT MESSAGE GOT CC2 ON SIO
0012E8	9 0,4	0013BA 40 DC X'40' * 0013BB 21 DC X'21' 0013BC F14E DC AL2(SIOMS1-BASE®) 0013BE 9D 00 C 000 SIOCOA TIO O(GRC) 0013C2 47 80 F 30C BC ZERO, SIOAOO 0013C6 47 50 F 3BE BC ANYON,*-8	PRINT PROG NO. PRIOR TO MSG TREAT AS ERROR DO NOT CHAIN DO NOT RESTORE PRINT ON NORMAL OUTPUT DEVICE NO OF CHAR IN MSG (33) MESSAGE ADDRESS TEST I/O THIS DEVICE REPEAT SIO IF CCO LOOP PREV TIO UNTIL GET CCO
00131C D2 00 F 048 F 14C MVC 001322 D2 03 D 048 F 048 MVC 001328 9C 00 C 000 SIO 00132C 45 10 F 330 BAL 001330 50 10 F 134 ST 001334 91 80 F 14D TM	CAW(1), CAWKEY HCAW(4, GRD), CAW O(GRC) GR1, *&4 GR1, *\$10VR4 SIOSWS, X*80° LOAD STORAGE KEY IN SEC PREF CAW LOAD CAW START I/O START I/O SAVE CONDITION CODE SEE IF RET TO PROG SW1 ON	0013CA 18 2C	SAVE I/O ADDR STORED IN GR12 SEE IF GR12 CONTAINS RDR ADDR BR IF YES SET READER ADDR IN GR 12 BR AROUND NEXT OP SET PUNCH ADDR IN GR 12 TEST I/O
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P/N 840258 PAGE 3A IBM MAINTENANCE DIAGNOSTIC PROGRAM P/N 840258 IBM MAINTENANCE DIAGNOSTIC PROGRAM PAGE * F8041 2821 SCAN/2540 READER/PUNCH * F8041 2821 SCAN/2540 READER/PUNCH F8041 CHANNEL REG FLT -ROUTINE OVERLAY 01-F8041 CHANNEL REG FLT -ROUTINE OVERLAY 01-DO NOT RESTORE NZERD, *-4 LOOP TIO UNTIL GET CCO 0013E4 47 70 F 3E0 PRINT ON NORMAL OUTPUT DEVICE LR GRC,GR2 RESTORE ORIGINAL SIO ADDR NO. OF CHAR IN MSG (35) 00147F 23 47 FO F 30C ALWAYS, SIOAOO GO TRY SID AGAIN 0013EA DC AL2(SIOMS4-BASEGREG) MESSAGE ADDRESS F73B 001480 SIDDOO TM BR IF SEC SS 00 IS 1 - LOOP SIG 0013FE 91 80 F 004 SNSW. X 1801 GET DM 10 SEC CONSTANT GR5,408(GRO,GRE) 001482 58 50 E 198 SIDEO2 L 47 10 F 3BE ALLON, SIOCOA 0013F2 GR5,GR5 SET UP 20 SEC CONSTANT 001486 1E 55 BR IF INTERV REQ SW OFF 91 80 F 183 SIOVR6,X'80' 0013F6 20 SEC DELAY 46 50 F 488 BCT GR5,* 001488 47 80 F 41A ALLOFF, SIODO1 TURN ON RESTART SECTION SW TURN DEF INTERV REQ SW SIOSWS-X'01' 00148C 96 01 F 14D ΩI 0013FE 92 00 F 183 MVI SIOVR6,Xº00 ALWAYS, SIDAOO GO TRY SIO AGAIN 47 FO F 30C BC 001490 HCSW&5(GRD),X'FF' BR IF ANY CHAN STATUS 001402 91 FF D 045 TM ******** вС 47 50 F 41A ANYON, SIODO1 001406 START I/O ROUTINE PERFORMS SENSE I/O HERE HCSW&4(GRD),X'EB' BR TO SIO ROUTINE IF BSY & DE ONLY 00140A 91 EB D 044 ************* 00140E 47 50 F 41A ANYON, SIDDO1 SIOMS3&9(3),SIOVR5 SET I/O ADDR IN OUTPUT MESSAGE 001494 D2 02 F 1CA F 180 SIDFOO MVC 91 14 D 044 HCSW&4(GRD),X'14' 41 40 F 728 50 40 F 048 GR4.SNSCCW SET UP SENSE CAW 00149A LA 001416 47 10 F 30C B.C. ALLON. SIGAGO SET I/O ADDR IN OUTPUT MESSAGE GR4, CAW ST 00149E ,, SIDMS2&9(3),SIOVR5 00141A D2 02 F 18D F 180 SIDDO1 MVC D2 00 F 048 F 14C CAW(1), CAWKEY MVC CONVERT CAW TO EBCDIC 0014A2 OA DD X * DD * 001420 SVC SVC X * DD * CONVERT CAW TO EBCDIC 001448 OA DD NO. OF HEX BYTES IN CAW 0004 AL2(4) 001422 AL2(4) NO. OF HEX BYTES IN CAW 0014AA 0004 001424 0048 AL2(CAW-SECST) HEX DATA ADDR AL2(CAW-SECST) HEX DATA ADDR AL2(SIOMS2&17-SECST) SIOVR3(8),HCSW(GRD) 0014AC 0048 DC 001426 EBCDIC ADDR IN OUTPUT MESSAGE AL2(SIOMS3&17-SECST) EBCDIC DATA ADDR IN OUTPUT MESSAGE 0014AE 01D2 DC D2 07 F 12C D 040 MVC SAVE CSW 001428 LOAD SENSE CAN D2 03 D 048 F 048 SIOFO1 MVC HCAW(4,GRD),CAW CONVERT CSW STATUS TO EBCDIC 0014B0 00142E OA DD SVC X * DD * O(GRC) SENSE I/O 9C 00 C 000 SIO NO. OF STATUS BYTES 0014B6 DC DC AL2(2) 001430 0002 0014BA 45 40 F 4BE GR4, *&4 SAVE CC AL2(SIOVR3&4-SECST) CSW STATUS ADDR 0130 001432 BR IF SEC SS 00 IS 1 - LOOP SIO 91 80 F 004 SNSW, X '80' 0014BE AL2(SIOMS2&45-SECST) EBCDIC ADDR IN OUTPUT MESSAGE 001434 01B1 47 10 F 564 BC. ALLON, SIOF 08 0014C2 92 F1 F 1A4 001436 MVI SIOMS2&32,X'F1' SET CC1 IN OUTPUT MESSAGE SAVE CC 0014C6 50 40 F 138 ST GR4.SIOVR7 TM BC SVC 00143A 91 02 F 130 SIOVR364.X'02' BR IF GOT UNIT CHECK SET CCO IN OUTPUT MESSAGE SIDMS3&32,X'F0' 0014CA 92 F0 F 1E1 MVI 00143E 47 10 F 454 ALLON, SIDEOO \$\$ SIOVR7,X'30' BR IF GOT CCO TM GOT CC1 ON SIO - NO UC 0014CE 91 30 F 138 X'DO' 001442 OA DO ALLOFF, SIOF03 47 80 F 516 0014D2 X'40' PRINT PROG NO. PRIOR TO MESSAGE 001444 40 DC SET CC3 IN OUTPUT MESSAGE 0014D6 92 F3 F 1E1 SIOMS3&32,X'F3' TREAT AS ERROR ALLON, SIOF 02 BR IF GOT CC3
SET CC2 IN OUTPUT MESSAGE 0014DA 47 10 F 50C DO NOT CHAIN SIOMS3832,X'F2' 0014DE 92 F2 F 1E1 MVI DO NOT RESTORE BR IF GOT CC2 SIOVR7,X'20' 0014E2 91 20 F 138 PRINT ON NORMAL OUTPUT DEVICE ALLON, SIOF 02 \$\$ 47.10 F 50C 0014E6 NO. OF CHAR IN MSG (49) 001445 31 F184 X * 31 * 92 F1 F 1E1 SIOMS3&32,X'F1' SET CC1 IN OUTPUT MESSAGE 0014FA AL2(SIOMS2-BASEGREG) MESSAGE ADDRESS 001446 D2 06 F 1E7 F 75E SIOMS3&38(7), SIOCN2 SET UP OUTPUT MESSAGE 0014EE 91 FF F 131 SIDDO2 TM SIOVR3&5, X'FF' BR TO TIO IF GOT ANY CHAN STATUS 001448 D2 07 F 13C D 040 MVC SIOVR8(8), HCSW(GRD) SAVE CSW 0014F4 47 50 F 3BE ANYON, SIOCOA CONVERT CSW STATUS TO EBCDIC GO TRY SIO AGAIN
GO DO SENSE OP .
CONVERT SENSE DATA TO EBCDIC 0014FA OA DD SVC X 'DD' 001450 47 FO F 30C ALWAYS, SIOAOO NO. OF STATUS BYTES DC DC DC A12(2) 0014FC 0002 001454 45 30 F 494 SIDEOO BAL GR3,SIOFOO CSW STATUS ADDRESS AL2(SIOVR8&4-SECST) OA DD 0014FE 0140 001458 SVC X 'DD' OIEE AL2(SIDMS3&45-SECST) EBCDIC ADDR IN OUTPUT MESSAGE 001500 AL2(1) NO. OF SENSE BYTES 00145A 0001 001502 OA DO SVC X'DO' GOT CC1 FOR SENSE I/O AL2(SENSE-SECST) SENSE DATA ADDRESS 001450 01 F7 PRINT PROG NO. PRIOR TO MESSAGE 40 X 1401 001504 AL2(SIOMS2&54-SECST) EBCDIC ADDR IN OUTPUT MESSAGE 00145E 01BA TREAT AS ERROR TM 001460 91 40 F 1F7 SENSE, X'40' BR IF GOT INTERV REQ DO NOT CHAIN BC SVC ALLON, SIDEO1 001464 47 10 F 472 DO NOT RESTORE GOT CC1 ON SIO - WITH UC & NO INV RQ 001468 OA DO X*DO* PRINT ON NORMAL OUTPUT DEVICE
NO. OF BYTES IN OUTPUT MESSAGE (49) PRINT PROG. NO PRIOR TO MESSAGE 40 DC X 40 00146A X'31' 001505 DC TREAT AS ERROR AL2(SIOMS3-BASE®) MESSAGE ADDRESS 001506 F1C1 DC BC DO NOT CHAIN ALWAYS, SIOF 08 GO TRY SENSE I/O AGAIN 001508 47 FO F 564 DO NOT RESTORE
PRINT ON NORMAL OUTPUT DEVICE OA DO GOT CC2 OR CC3 ON SENSE I/O SIDFO2 SVC X DO 00150C 40 X'40' PRINT PROG NO. PRIOR TO MESSAGE 00150E DC 56 CHARACTERS 00146B TREAT AS ERROR DC BC AL2(SIOMS2-BASEEREG) MESSAGE ADDRESS 00146C F184 DO NOT CHAIN 47 FO F 448 ALWAYS, SIODO2 GO TRU SIO AGAIN 00146E DO NOT RESTORE SIDEO1 MVI TURN ON INTERV REQ SW 001472 92 80 F 183 SIDVR6,X'80' PRINT ON NORMAL OUTPUT DEVICE GOT CC1 ON SIO - UC & INTERV REQ X * DO * 001476 OA DO SVC NO. OF BYTES IN OUTPUT MESSAGE (33) 00150F 21 X'21' DC PRINT PROG NO PRIOR TO MSG 60 X . 60 001478 AL2(SIOMS3-BASE ®) F1C1 MESSAGE ADDRESS 001510 TREAT AS ERROR GO TRY SENSE I/O AGAIN ALWAYS.SIOF08 47 FO F 564 001512 CHAIN CLEAR SENSE I/O CSW SAVE AREA SIOVR8(8), SIOVR8 D7 07 F 13C F 13C 9D 00 C 000 SIOFO3 XC DO NOT RESTORE 001516 OLGRET PRINT ON NORMAL CUTPUT DEVICE 001510 BR IF CSW STORED CSWST, SIOF04 47 40 F 52C NO. OF CHAR IN MSG (56) 001520 001479 X 4 3 8 9 38 REPEAT TIO IF NOT CCO 47 70 F 51C NZERO,SIOF03&6 001524 F184 AL2(SIOMS2-BASEEREG) MESSAGE ADDRESS 00147A CONTINUE 001528 47 FO F 532 ALWAYS.SIDF05 MAKE THIS UNIT RDY WITH BLANK CARDS OA DO SVC X . DO . SIDFO4 DC SIOVR8(8), HCSW(GRD) SAVE CSW D6 07 F 13C D 040 91 FF F 141 00152C I/O ADDR IN GR 12 SIOVR865, X'FF' BR IF ANY CHANNEL STATUS SIDFO5 TM 001532 DC X 1801 PRINT MESSAGE ONLY 00147E 80 47 50 F 54A ANYON, SIOFO6 001536 DO NOT TREAT AS ERROR BR IF DID NOT GET CE & DE 91 OC F 140 SIOVR8&4,X'OC' 00153A DO NOT CHAIN 17MAR66 F804-1 DATE 15JUL65 ID F804-1 DATE 15JUL65 17MAR66 124265 125643 PAGE 3A PAGE 124265 125643

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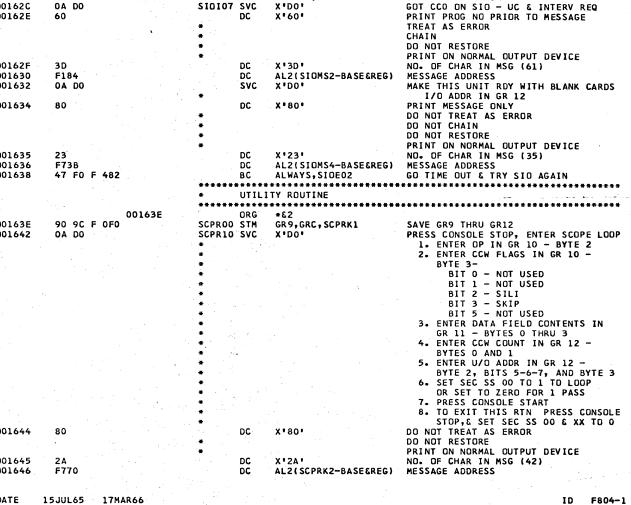
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P/N 840258 PAGE DO NOT RESTORE PRINT ON NORMAL OUTPUT DEVICE NO OF CHAR IN MSG (54) AL2(SIOMS2-BASE®) MESSAGE ADDRESS SIOIO6 MVC SIOMS2&54(7), SIOCN2&11 SET UP OUTPUT MESSAGE SVC X • DD • CONVERT SENSE BYTE TO EBCDIC DC AL2(1) NO. OF SENSE BYTES AL2(SENSE-SECST) SENSE DATA ADDR AL2(SIOMS2859-SECST) EBCDIC ADDR IN OUTPUT MESSAGE TM BC SENSE,X'40' BR IF GOT INTERV REQ ALLON, SICIO7 ERROR WITH UC & NO INTERV REQ SVC X'DO' PRINT PROG NO PRIOR TO MESSAGE DC X 401 TREAT AS ERROR DO NOT CHAIN DO NOT RESTORE
PRINT ON NORMAL OUTPUT DEVICE NO. OF CHAR IN MSG (61) DC AL2(SIOMS2-BASE®) MESSAGE ADDRESS ALWAYS, SIDAOO GO TRY SID AGAIN \$10107 SVC יחתיא



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* F8041 2821 SCAN/2540 READER/PUNCH F8041 CHANNEL REG FLT -ROUTINE OVERLAY 01-		* F8041 2821 SCAN/2540 READER/PUNCH F8041 CHANNEL REG FLT -ROUTINE OVERLAY 01-	
001648 58 C0 F 730	K4&3 K4 CHECK IF CCW COUNT OVER 180 BRANCH IF NOT KA FORCE CCW COUNT TO 180 SET UP DATA FIELD	* CONSTANTS FOR SIO ROUT ************************************	R° CA° IS ° ***********************************
0016A6 D2 03 F 234 F 100 MVC SCPDAT(4), SCPRK4 0016AC D2 AF F 238 F 234 SCPDAT&4(176), SCPRK4 ************************************	PDAT ,,	001790 40D3D6D6D740C4C1E3 DC C' LODP DATA' 001799 C1 00179A 00B4 SCPRKA DC X'00B4' 00179C 00 SCHNUM DC X'00' 00179D D9D6E4E3C9D5C540C2 EXMSG DC C'ROUTINE BYPASS	FOR CCW COUNT OF 180 SEARCH NUMBER SED*
0016B2 41 90 F 0E8 SCPR70 LA GR9, SCPCCW 0016B6 50 90 F 048 ST GR9, CAW	*** *** ***	0017A6 E8D7C1E2E2C5C4	******************************
	DO NOT CHAIN LOAD CAW START I/O TEST I/O REPEAT TIO IF NOT CCO LOOP IF SEC SS OO IS 1 - SIO LOOP BR IF SEC SS OI IS 1 - USE SCOPE RTN RETURN TO PROGRAM	0017AE	ALIGN ON WORD BOUNDARY
0016E6	SEE IF SEC SS 01 IS 1USE SCOPE RTN BR IF NO BR TO UTILITY RTN SEE IF DM SS 26 IS 1 - CYCLE SECTION BR IF YES LOAD ADDR OF DIAG CK RD CCW IN CAW ', SET READER ADDRESS IN GR 12 RESET SIO SWSUSE READER- GO READ BYPASS DATA CARDS) LOAD ADDRESS FOR DATA RECORDS CONTINUE READING DATA CARDS ROUTINE EXIT - READ IN NEXT RECORD ************************************	# GENERAL EQUATES ***********************************	ALL OFF 0 ANY ON 1 3 ALL ON 3 MIXED 1 NOT MIXED 0 3
DATE 15JUL65 17MAR66 EC 124265 125643	ID F804-1 PAGE 5	DATE 15JUL65 17MAR66 EC 124265 125643	ID F804-1 Page 5a

* F8041	2821	SCANA	2540	READER/	PUNCH	
F8041	CHANNEL	REG	FLT	-ROUTINE	OVERLAY	01-

* F8041	2821	SCAN/2540	READER/F	UNCH	
F8041	CHANNEL	REG FLT	-ROUTINE	OVERLAY	01-

	* F8041 F8041	2821 SCAN/2540 READER/ CHANNEL REG FLT -ROUTING			* F8041 F8041	2821 SCAN/2540 READER/I			· · · · · · · · · · · · · · · · · · ·
and the second									Taken berkeling and the second second second second second second second second second second second second se
4		000008	EQUAL EQU	8 EQUAL 0					BIT 7 -ON- BIT ALWAYS ON
4		000006	NEQUAL EQU	6 NOT EQUAL 1 2			*		DIT I -UN- DIT ACHATS UN
- desired		000004	LOW EQU	4 LOW 1	00184E	00	HCK DC	X • 00 •	
		000002	HIGH EQU	2 HIGH 2	00184F	000000000000000000	LGAREA DC	XL29'00'	LOG OUT DATA TABLE AREA
		000008 000002	ZERO EQU GZERO EQU	8 ZERO 0 2 GREATER ZERO 2	001858	000000000000000000			
1		000008	AVAIL EQU	8 AVAILABLE 0	00186A	0000			
	*1.	000004	CSWST EQU	4 CSW STORED 1			*********	********	**********
		000002	BUSY EQU	2 BUSY 2			•		
4:		00000F 00000D	ALWAYS EQU NOTBSY EQU	15 UNCONDITIONL 0 1 2 3 13 NOT BUSY 0 1 3				ROUTINE PREFIX	B
3		000007	NZERO EQU	7 NOT CC 0 1 2 3				ROUTINE 01	
		000004	NOTZRO EQU	4 NOT ZERO -AND- 1	00186C		CNOP	0,4	FULL WORD ALIGNMENT
į		000000	MIXNON EQU	12 MIXED OR NONE 0 1	00186C	01	RTNO1 DC	XL1'01'	ROUTINE NUMBER
		000000	NHIGH EQU	13 NOT HIGH 0 1 3	00186D 00186E	00 FFFE	DC DC	XL1'0' X'FFFE'	FLAGS ADDRESS OF NEXT ROUTINE
				*****			•		ADDRESS OF NEXT ROOTINE
d.		0017D0		SECST&2000	001870	1B DD	INITOO SR	GRD, GRD	CLEAR REGISTER 13
14 74			********	***************************************	001872 001876	91 40 E 196	TM BC	406(14),X'40'	LOAD REG 13 WITH THE CONTENTS
Á			· •	OVERLAY ROUTINE *	00187A	47 80 F 87C 18 DF	LR	ALLOFF, +&6 GRD, GRF	,, OF REG 15 IF RUNNING ,, IN PROBLEM STATE
4				#	1				
4			*********	***************	00187C	91 02 F 004	TM	SNSW, X'02'	IS TITLE PRINTOUT DESIRED
		· · · · · · · · · · · · · · · · · · ·	*	VARIABLE FIELDS FOR CHANNEL REGISTER TEST *	001880	47 80 F 88A 0A DO	BC SVC	ALLOFF, INIT10 X'DO'	BRANCH TO SKIP TITLE PRINT PRINT TITLE
4.				ABLES - NO BOUNDARY *	001886	80	DC	X*80*	** NORMAL OUTPUT
				**************	001887	1F	DC	X'IF'	,, 31 CHARACTERS
	0017D0	000000	CKRDAR DC	XL3.0. CHECK READ DATA BYTES	001888	FD1C	DC	AL2(TITLE1-BASE®)	,, ADDRESS OF TITLE
. 1	0017D3 0017DC	00000000000000000	HOTBIT DC HOTRD DC	XL9'0' AREA TO SAVE WHICH POSITIONS ARE HOT X'00' AREA TO STORE HOT BITS	00188A	1B 00	# INIT10 SR	GRO, GRO	CLEAR REGISTER O
1	0017DD	00	TSTCHR DC	X*00* TEST CHAR POSITION -LOOK FOR HOT BIT	00188C	91 10 E 180	TM	384(14),X'10'	IS STORAGE PROTECT ON SYSTEM
	0017DE	00	EXPECT DC	X'00' AREA TO TEST FOR EXPECTED BIT	001890	47 80 F 89A	BC.	ALLOFF, INIT20	BRANCH IF NOT
1	0017DF	00	TRBLE DC	X*00* TROUBLE SWITCH-TURNED ON FOR ANY ERR	001894	09 OF	ISK	GRO, GRF	PUT STOR KEY IN REG O
. ;	0017E0	80000000000000000	DATAO DC	X'800000000000000000 DATA REG O BIT	001896 00189A	42 00 F 14C 0A DD	STC INIT20 SVC	GRO,CAWKEY X*DD*	SAVE STOR KEY FOR PROGRAM USE CONVERT READER ADDRESS TO PRINT CHAR
	0017E9	00	DATAO DC	X'800000000000000000 DATA REG 0 BIT	00189C	0002	DC	AL2(2)	,, 2 BYTES
1.	0017EA	400000000000000000	DATA1 DC	X'4000000000000000000 DATA REG 1 BIT	00189E	00E2	DC	AL2(UN1ADR-SECST)	, ADDRESS OF READER ADDRESS
	0017F3	00			0018A0	022C	DC	AL2(UARD-1-SECST)	,, ADDRESS OF PLACEMENT
	0017F4 0017FD	200000000000000000 00	DATA2 DC	X*200000000000000000 DATA REG 2 BIT	0018A2 0018A4	0A DD 0002	SVC DC	X'DD' AL2(2)	CONVERT PUNCH ADDRESS TO PRINT CHARS
1	0017FE	100000000000000000	DATA3 DC	X'1000000000000000000 DATA REG 3 BIT	001846	0066	DC	AL2(UN2ADR-SECST)	,, 2 BYTES ,, ADDRESS OF PUNCH ADDRESS
	001807	00			001848	0230	DC .	AL2(UAPU-1-SECST)	, ADDRESS OF PLACEMENT
	001808	08000000000000000	DATA4 DC	X*0800000000000000000 DATA REG 4 BIT					
	001811 001812	00 040000000000000000	DATA5 DC	X*0400000000000000000 DATA REG 5 BIT	0018AA	92 00 F 79C	* MVI	SCHNUM, X . 00	SET UP SEARCH NUMBER TO ZEROS
	001818	00	04145 00	A GAGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	0018AE	91 40 F 004	TM	SNSW, X 40	SEE IF SEC SS 01 IS 1USE SCP RTN
j	00181C	02000000000000000	DATA6 DC	X*020000000000000000 DATA REG 6 BIT	001882	47 80 F 8BA	ВС	ALLOFF, DATAOO	BR IF NO
	001825	00	04747 00	V40100000000000000000000000000000000000	001886	45 80 F 63E	BAL	GR8,SCPR00	BR TO UTILITY ROUTINE
	001826 00182F	010000000000000000	DATA7 DC	X*0100000000000000000 DATA REG 7 BIT	0018BA 0018BC	1B CC 48 CO F 0E6	DATAOO SR	GRC,GRC GRC,UN2ADR	CLEAR REGISTER 12 LOAD PUNCH ADDR IN REG 12
1	001830	000000000000000000	DATAB DC	X.00000000000000000000 DATA REG NO BITS	001800	41 00 F D10	DATAOS LA	GRO, ADRCCW	LOAD ADDR OF ADDRESS CHECK CCW
Ĵ	001839	00	DATAY NO	V1000000000000000000000000000000000000	001864	50 00 F 048	ST	GRO,CAW	STORE ADDR CK CCW ADDR IN CAW
1	00183A 001843	00000000000000000	DATAX DC	X'00000000000000000000 DATA REG EXTRA -FOR PUNCH CKS	0018C8	92 00 F 14D 45 B0 F 2E8	MVI BAL	SIOSWS,Xº00º GRB,SIO	RESET SIO SWITCHES - SIO PUNCH GO TO START I/O ROUTINE
1		- 	*		551556	5 50 . 220	. *	557515	SO TO START 170 ROOT INE
- 1			*	AREA FOR WORKING ON DATA	0018D0	95 14 F 133	CLI	CSWSAV&7,X*14*	IS CSW COUNT OK
1	001944	00	#	VACCA	0018D4	47 60 F C92	ВС	NEQUAL, ADRCHK	BRCH FOR ADDR CK IF CSW COUNT BAD
٠ŧ.,	001844 001845	00 00	WRITE DC STATIA DC	X'00' WRITE AREA X'00' 1ST STATUS AREA A	001808	41 00 F D10	DATAOS LA	GRO, ADRCCW	LOAD ADDR OF ADDR CHECK CCW
1	001846	00	STAT1B DC	Xº00° 1ST STATUS AREA B	0018DC	50 00 F 048	ST	GRO, CAW	STORE ADDR CK CCW ADDR IN CAW
i	001847	00	SENSE1 DC	X'00° 1ST SENSE AREA	0018E0	48 CO F 0E2	LH	GRC, UNIADR	LOAD READER ADDRESS IN REG 12
4	001848 001849	00 00	CKRD1 DC READ DC	X'00' 1ST CHECK READ AREA X'00' READ AREA	0018E4 0018E8	92 02 F 14D 45 B0 F 2E8	MVI BAL	SIOSWS,X'02' GRB,SIO	RESET SIO SWITCHES - SIO READER GO TO START I/O ROUTINE
.:	00184A	00	STAT2 DC	X'00' 2ND STATUS AREA	001028	15 00 1 250	BML #	0001010	SO TO START ITO ROUTINE
	00184B	00	SENSE2 DC	X'00' 2ND SENSE AREA	0018EC	95 14 F 133	CLI	CSWSAV&7, X 14 4	IS CSW COUNT OK
. 1	00184C	00	CKRD2 DC	X1001 2ND CHECK READ AREA	0018F0	47 60 F C92	ВС	NEQUAL, ADRCHK	BRANCH FOR ADDR CK IF CSW COUNT BAD
	00184D	00	ERRSW DC	X*00* ERROR SWITCHES BIT 6 -ON- BIT NOT TURN ON	0018F4	48 CO F 0E6	EH LH	GRC , UNZADR	LOAD PUNCH ADDR IN REG 12
1	· 1			DIT O UN- DIT NOT TORN UN	5510.4	.0 00 1 020	LII	CHO TONEAUN	TONO I OHOLI NOON IN NEO 12
11					1		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		the state of the s
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* F8041 2821 SCAN/2540 READER/PUNCH F8041 CHANNEL REG FLT -ROUTINE OVERLAY 01-		* F8041 F8041	2821 SCAN/2540 READER/ CHANNEL REG FLT -ROUTINE			
0018F8 41 90 F 7E0 LA GR9,DATAO	LOAD 1ST DATA GROUP ADDR IN REG 9	0019EA 0019EE	41 90 F 7E0 92 00 F 7DF	CRCKOO LA MVI	GR9,DATAO TRBLE,X'00'	LOAD 1ST DATA GROUP ADDR IN REG 9 RESET TROUBLE SWITCH
0018FC D2 09 F 844 9 000 DATA10 MVC WRITE(10),0(9)	SET A DATA GROUP IN WORK AREA	0019F2	41 00 F 839	LA	GRO,DATA7819	SET UP MAXIMUM COUNT
001902 41 00 F CF8 LA GRO, PWRCCW	LOAD ADDRESS OF PUNCH WRITE CCW	0019F6	41 10 F 7E9	LA CRCKO5 MVI	GR1,DATA0&9 O(GR1),X'00'	INITIALIZE INDEX 1 TO START OF GROUP RESET DATA GROUP ERROR SWITCHES
001906 D7 08 F 845 F 845 XC STAT1A(9),STAT1A 00190C D2 00 F 845 F 844 MVC WRITE&1(1),WRITE	CLEAR WORK AREA EXCEPT WRITE DATA GENERATE 2 BYTES OF WRITE DATA	0019FA 0019FE	92 00 1 000 41 11 0 00A	LA	GR1,10(GR1,0)	UPDATE INDEX BY 10
001912 50 00 F 048 ST GRO, CAW	STORE PUNCH CCW ADDR IN CAW	001A02	15 10	CLR	GR1,GR0	CHECK IF ALL GROUPS RESET
001916 92 00 F 14D MVI SIDSWS,X*00*	RESET SIO SWITCHES -SIO PUNCH	001404	47 60 F 9FA 92 00 F 84E	BC MVI	NEQUAL, CRCK05 HCK, X 100 1	GO RESET NEXT GROUPS SWITCHES TURN OFF HOT CHECK SWITCH
00191A 45 B0 F 2E8 BAL GRB,SIO 00191E 91 01 F 14D TM SIDSWS,X*01*	GO TO START I/O ROUTINE IS INTERVENTION REQ SWITCH SET	001A08	92 00 F 84E	* -	HORYK OO	
001922 47 10 F 870 BC ALLON, INITOO	RESTART PROGRAM IF ON	001 A0C	D2 09 F 844 9 000	CRCK10 MVC	WRITE(10),0(9) ALWAYS,CRCK35	GET A DATA GROUP FOR ANALYSIS GO SEE IF CHECKED FOR HOT BITS
001926 D2 00 F 845 F 130 MVC STATIA(1), CSWSAV&4 00192C D2 00 F 846 F 1F8 MVC STATIB(1), STATSV	SAVE 1ST STATUS AT CHAN-END SAVE 1ST STATUS AT DEVICE-END	001A12 001A16	47 FO F A3A 91 02 F 848	BC CRCK11 TM	CKRD1,X'02'	WAS XLATE CHECK ON WITH PCH WRITE
001932 D2 00 F 847 F 1F7 DATA20 MVC SENSE1(1), SENSE	SAVE SENSE DATA AFTER PUNCH - WRITE	001A1A	47 10 F AEE	ВС	ALLON, CRCK80	BRANCH IF ON
001938 45 AO F 988 BAL GRA, DGCKRD	GO DO DIAG CK READ TO PUNCH	001415	01 03 5 846	* CRCK20 TM	CKRD2,X'02'	WAS XLATE CK ON WITH PUNCH READ
00193C D2 00 F 848 F 7D0 MVC CKRD1(1),CKRDAR	SAVE CK RD DATA FROM PUNCH WRITE	001A1E 001A22	91 02 F 84C 47 10 F AEE	BC	ALLON, CRCK80	BRANCH IF ON
001942 41 00 F DOO DATA30 LA GRO, RDCCW	LOAD ADDRESS OF PUNCH READ CCW			*	EVDECT/11 UDITE	SET EXPECTED BIT IN TEST AREA
001946 50 00 F 048 ST GRO,CAW 00194A 92 00 F 14D MVI SIDSWS,X*00*	SET CCW ADDRESS IN CAW RESET SIO SWITCHES -USE PUNCH-	001A26 001A2C	D2 00 F 7DE F 844 D4 00 F 7DE F 849	CRCK30 MVC	EXPECT(1), WRITE EXPECT(1), READ	TEST IF BIT READ AS EXPECTED
00194E 45 B0 F 2E8 BAL GRB,SIO	GO TO START I/O ROUTINE	001A32	47 80 F AB2	вс	ZERO, CRCK50	BRANCH IF NOT OK
001952 91 01 F 14D TM SIOSWS,X*01*	IS INTERVENTION REQ SWITCH ON	001A36	47 FO F BOE	ВС	ALWAYS, CRCK90	CONTINUE
001956 47 10 F 870 BC ALLON, INITOO 00195A D2 00 F 84A F 130 MVC STAT2(1), CSWSAV&4	RESTART PROGRAM IF ON SAVE STATUS FROM PUNCH BUFFER READ	001A3A	91 FF F 84E	CRCK35 TM	HCK,X'FF'	SEE IF CHECKED FOR HOT BITS YET
001960 D2 00 F 84B F 1F7 MVC SENSE2(1), SENSE	SAVE SENSE DATA AFTER PUNCH READ	001A3E	47 10 F A16	ВС	ALLON, CRCK11	,, BRCH IF YES
001966 45 A0 F 988 BAL GRA,DGCKRD 00196A D2 00 F 84C F 7D0 MVC CKRD2(1),CKRDAR	GO DO DIAG CK READ TO PUNCH SAVE CK RD DATA AFTER PUNCH-READ	001A42 001A46	92 FF F 84E 41 80 0 001	MVI LA	HCK,X'FF' GR8,1(0,0)	TURN ON HOT CHECK SWITCH INITIALIZE HOT BIT CHECK ROUTINE
00196A D2 00 F 84C F 7D0 MVC CKRD2(1),CKRDAR	SAVE CK KD DATA AFTER FUNCH-KEAD	001448	41 70 0 080	LA	GR7,128(0,0)	71
001970 D2 09 9 000 F 844 DATA40 MVC 0(10,9), WRITE	MOVE DATA FROM WORK AREA TO GROUP	001A4E	41 10 F 826	LA LA	GR1,DATA7 GR2,DATA7	7,7
001976 41 99 0 00A LA GR9,10(9,0) 00197A 41 00 F 844 LA GR0,DATAX610	UPDATE REG 9 BY 10 SET REG 0 TO MAX COUNT	001A52 001A56	41 20 F 826 96 01 1 009	CRCK38 LA DI	9(GR1),X*01*	TURN ON HOT BIT SWITCH
00197E 15 90 CLR GR9,GR0	ALL DATA ACCUMULATED	001A5A	44 80 F A9E	EX	GR8,CRCK41	SEE IF HOT BIT
001980 47 60 F 8FC BC NEQUAL,DATA10 001984 47 F0 F 9EA BC ALWAYS,CRCKOO	GO GET NEXT DATA GROUP GO ANALIZE DATA FOR CHANNEL CHECK	001A5E 001A62	47 80 F A72 44 80 F AAA	BC EX	ALLOFF,CRCK39-4 GR8,CRCK43	,, BRCH IF NO SEE IF HOT BIT
001984 47 FO F 9EA BC ALWAYS,CRCKOO	GU ANALIZE DATA FOR CHANNEL CHECK	. 001A66	47 80 F A72	ВĈ	ALLOFF, CRCK39-4	,, BRCH IF NO
* ROUTINE TO DO DIAG	CK READ	001A6A	44 80 F AAE	EX	GR8, CRCK44	SEE IF HOT BIT ,, BRCH IF YES
001988 41 00 F DO8 DGCKRD LA GRO,CRDCCW	LOAD ADDR OF DIAG CK RD CCW	001A6E 001A72	47 10 F A88 94 FE 1 009	BC NI	ALLON, CRCK40 9(GR1), X*FE*	TURN OFF HOT BIT SWITCH
00198C 50 00 F 048 ST GRO, CAW	STORE ADDR OF CCW IN CAW	001A76	15 87	CRCK39 CLR	GR8,GR7	SEE IF END
001990 91 02 F 14D TM SIDSWS,X*02* 001994 48 CO F 0E6 LH GRC,UN2ADR	IS READER CK RD WANTED	001A78 001A7C	47 80 F A16 41 88 8 000	BC LA	EQUAL, CRCK11 GR8, O(GR8, GR8)	,, BRCH IF YES SET UP TO TEST FOR NEXT BIT
001994 48 CO F 0E6 LH GRC,UN2ADR 001998 47 80 F 9A0 BC ALLOFF,*&8	SET UP ADDRESS OF PUNCH BRANCH IF NOT READER	001470	5B 10 F D18	s	GR1, TEN	. 11
00199C 48 CO F 0E2 LH GRC, UNIADR	SET UP ADDRESS OF READER	001A84	47 FO F A52	BC BC	ALWAYS, CRCK38	SEE IF END
0019A0 D2 02 F 7D0 F D54 MVC CKRDAR(3),CLEAR 0019A6 94 FD F 14D NI SIDSWS,X*FD*	RESET DIAG CHECK READ AREA RESET SIO SWITCHES EXCEPT READ-PUNCH	001A88 001A8C	41 70 F 7E0 15 72	CRCK40 LA CLR	GR7,DATAO GR7,GR2	11
0019AA 45 B0 F 2E8 BAL GRB,SIO	GO TO START I/O ROUTINE	001A8E	41 70 0 080	LA	GR7,128(0,0)	11
* TM SIDSWS, X * O1 *	IS INTERVENTION REQ SW ON	001A92 001A96	47 80 F AA2 5B 20 F D18	BC S	EQUAL, CRCK42 GR2, TEN	,, BRCH IF YES SET UP FOR NEXT DATA GROUP
001982 47 10 F 870 BC ALLON, INITOO	RESTART PROG IF ON	001A9A	47 FO F A56	ВС	ALWAYS, CRCK38&4	CONTINUE
001986 91 FF F 7D2 TM CKRDAR&2,X'FF'	WAS DATA TRANSFERRED	001A9E	91 00 2 005	CRCK41 TM	5(GR2),X'00' TRBLE,X'01'	TURN ON TROUBLE SWITCH
0019BA 47 10 F 9C2 BC ALLON, DGCK10 0019BE 47 F0 F 9E8 BC ALWAYS, RETNCR	BRANCH IF NOT OK BRANCH IF OK	001AA2 001AA6	96 01 F 7DF 47 F0 F A76	BC	ALWAYS, CRCK39	TOTAL ON THOODER ONLY ON
0019C2 91 FF F 7D1 DGCK10 TM CKRDAR&1, X'FF'	WAS DATA TRANSFERRED	. 001444	91 00 2 004		4(GR2),X'00'	
0019C6 47 10 F 9E8 BC ALLON,RETNCR 0019CA D2 02 F 212 F 231 MVC MESS1&16(3),UAPU	BRANCH IF OK SET PUNCH ADDRESS IN MESSAGE	OOLAAE	91 00 2 008	CRCK44 TM	8(GR2),X'00'	
0019D0 91 02 F 14D TM SIOSWS, X • 02 •	IS READER BEING USED	. 6		*		
0019D4 47 80 F 9DE BC ALLOFF,*&10	BRANCH IF NOT READER	001AB2	41 70 0 008	CRCK50 LA LA	GR7,8(0,0) GR8,DATA0&5	SET REG 7 TO NO. OF GROUPS LOAD 1ST GROUP ADDR IN INDEX REG 8
0019D8 D2 02 F 212 F 22D MVC MESS1&16(3),UARD 0019DE 0A D0 SVC X'DO'	SET READER ADDRESS IN MESSAGE PRINT DIAG CR RD MESSAGE	001AB6 001ABA	41 80 F 7E5 95 00 8 000	CRCK51 CLI	0(8),X'00'	WERE ANY BITS READ FOR THIS GROUP
0019E0 44 DC X'44'	,, ERROR MESSAGE	001ABE	47 60 F ACE	ВС	NEQUAL, CRCK55	BRANCH IF BITS READ
0019E1 2B DC X*2B* 0019E2 F202 DC AL2(MESS1-BASE®	,, 43 CHARACTERS) ,, ADDRESS OF MESSAGE	001AC2 001AC6	41 88 0 00A 46 70 F ABA	LA BCT	GR8,10(8,0) GR7,CRCK51	UPDATE INDEX REG 8 BY 10 BRANCH IF ALL GROUPS NOT CHECKED
OO19E4 47 FO F 8FC BC ALWAYS, DATA10	GO RESTART DATA GROUP	001ACA	47 FO F B50	вс	ALWAYS, ALZO15	BRANCH TO ERROR MESSAGE-ALL BITS OFF
0019E8 07 FA RETNCR BCR ALWAYS, GRA	RETURN TO OTHER ROUTINE	Ę		*		
		001ACE	91 04 F 848	CRCK55 TM	CKRD1,X'04'	DID PARITY CHECK OCCUR WHILE WRITING
* ROUTINE TO ANALYZE	CHANNEL REGISTER	001AD2	47 10 F BOE	BC	ALLON, CRCK90	BRANCH IF ON TO GET NEXT DATA GROUP
		001AD6	91 04 F 817	ТМ	DATA5&5,X 04 *	WAS 5 BIT READ WHEN EXPECTED
		- 1 (1) (1)				
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The street managed by Albitan 185.	* F8041 2821 SCAN/2540 READER/PUNCH F8041 CHANNEL REG FLT -ROUTINE OVERLAY	01–	* F8041 2821 SCAN/2540 READER/PUNCH F8041 CHANNEL REG FLT -ROUTINE OVERLAY 01-	
	001ADA 47 10 F AE6	BC ALLON, CRCK60 BRANCH IF YES	***************************************	transition .
Annual comment of the comment	001ADE 91 04 F 844 001AE2 47 80 F 80E	TM WRITE,X'04' IS 5 BIT BEING CHECKED BC ALLOFF,CRCK90 BRANCH IF NO	001B92 47 80 F BAO BC ALLOFF, ALZO32	DID BIT O TURN ON BRANCH IF TURNED ON OK ERR 032 - CHANNEL REG O BIT DOES NOT ,, TURN ON
Campa age of the comment	001AE6 96 02 F 84D CRCK60 001AEA 47 F0 F B0A	OI ERRSW, X'O2' TURN ON -NO BIT SET- SWITCH BC ALWAYS, CRCK86 GO TURN ON TROUBLE FOUND SWITCH	001899 07 DC X*07* 001894 FD65 DC AL2(ERR032-BASE®) 00189C 47 FO F BAE BC ALWAYS,ALZ034	TURN ON
manufacture and the second second	001AEE 91 02 F 844 CRCK80 001AF2 47 10 F AFE 001AF6 91 02 F 849 001AFA 47 80 F 80E 001AFE 91 01 F 825 CRCK81 001802 47 80 F 80E 001B06 47 F0 F 80A 001B0A 96 01 F 7DF CRCK86	BC ALLON, CRCK81 BRANCH IF EXPECTED TM READ, X°02° WAS A 6 BIT READ BACK BC ALLOFF, CRCK90 BRANCH IF NOT READ TM DATA669, X°01° SEE IF HAVE HOT CHAN REG 6 BIT BC ALLOFF, CRCK90 , BRCH IF NO BC ALWAYS, CRCK86 GD TURN ON TROUBLE SWITCH	0018A4 47 80 F BAE BC ALLOFF, ALZO34 E OO18A8 OA DO SVC X'DO' E OO18AA 44 DC X'44' OO18AB O7 DC X'07' OO18AC FD6C DC ALZ(ERRO33-BASE®) OO18AE 91 02 F 7F3 ALZO34 TM DATAL&9, X'02' I OO18B2 47 80 F BCO BC ALLOFF, ALZO36 I OO18B6 OA DO SVC X'DO' I	WAS BIT O ALWAYS ON BRANCH IF TURNED OFF OK ERR 033 - CHANNEL REG O BIT IS ,, ALWAYS ON ,, DID BIT 1 TURN ON BRANCH IF TURNED ON OK ERR 034 - CHANNEL REG 1 BIT DOES NOT
and the second section of the second section and second section and second section second second second second	00180E D2 00 9 009 F 84D CRCK90 001814 41 99 0 00A 001818 41 00 F 830 00181C 15 90 00181E 47 60 F A0C 001822 47 F0 F B26	LA GR9,10(GR9,0) LA GR0,DATA7810 CLR GR9,GR0 BC NEQUAL,CRCK10 BC ALWAYS,ALZ000 UPDATE INDEX REG 9 BY 10 SET REG 0 TO MAX COUNT HAVE ALL DATA GROUPS BEEN CHECKED IF NOT, GO GET NEXT GROUP GO CHECK FOR ERRORS	001BC4 47 80 F BCE BC ALLOFF, ALZO40 1	TURN ON TO THE T
and the section of	001B2A 47 10 F B32 001B2E 47 F0 F CA0	BC ALLON, ALZOO5 BRANCH IF ON BC ALWAYS, EXITO1 GO TO NEXT ROUTINE	# 001BCE 91 02 F 7FD ALZ040 TM DATA2&9,X*02* 001BD2 47 80 F BEO BC ALLOFF,ALZ042	DID BIT 2 TURN ON BRANCH IF TURNED ON OK
	*	ROUTINE TO CHECK IF ALL BITS CANNOT TURN ON	001BD8 44 DC X*44*	ERR 036 - CHANNEL REG 2 BIT DOES NOT TURN ON
Commence of the Commence of th	001B32 41 00 F 839 ALZ005 001B36 92 FF F 79C 001B3A 41 10 F 7E9 001B3E 91 02 1 000 ALZ010 001B42 47 80 F 85A 001B46 41 11 0 00A 001B4A 15 10 001B4C 47 60 F B3E	MVI SCHNUM,X'FF' SET UP TO BYPASS ALL REMAINING OVLYS LA GR1,DATAO89 INITIALIZE INDEX 1 TO START OF GROUP	001BE4 47 80 F BEE BC ALLOFF, ALZ044 I 001BE8 0A DO SVC X'DO' I 001BEA 44 DC X'44' 001BEB 07 DC X'07'	WAS BIT 2 ALWAYS ON BRANCH IF ABLE TO RESET BIT 2 ERR 037 - CHANNEL REG 2 BIT IS ,, ALWAYS ON
The second secon	001B50	SVC X'DO' ERR 30 - ALL CHANNEL REGISTER BITS DC X'44' , ARE ALWAYS OFF AND CANNOT DC X'07' , BE TURNED ON DC AL2(ERRO30-BASE®) , GO TO NEXT ROUTINE ROUTINE TO CHECK IF ALL BITS ALWAYS ON	001BF2 47 80 F C00 BC ALLOFF, ALZO46 1 001BF6 0A D0 SVC X*DO* 1 001BF8 44 DC X*44* 0 001BF9 07 DC X*07* 0 001BFA FD8F DC AL2(ERRO38-BASE®)	DID BIT 3 TURN ON BRANCH IF TURNED ON OK ERR 038 — CHANNEL REG 3 BIT DOES NOT ,, TURN ON ,,
and the second s	00185A 41 10 F 7E9 ALZ020 00185E 91 01 1 000 ALZ021 001862 47 80 F 874 001866 41 11 0 00A 00186A 15 10 00186C 47 60 F 85E 001870 47 F0 F 884		001C04 47 80 F COE BC ALLOFF, ALZO48	WAS BIT 3 ALWAYS ON BRANCH IF ABLE TO RESET BIT 3 ERR 039 - CHANNEL REG 3 BIT IS ,, ALWAYS ON ,,
	* 001874 91 FF F 835 ALZ025 001878 47 C0 F 88E		001C12 47 80 F C20 BC ALLOFF, ALZO50 8 001C16 0A D0 SVC X'DO'	DID BIT 4 TURN ON BRANCH IF TURNED ON OK ERR 040 - CHANNEL REG 4 BIT DOES NOT
	001B7C 91 10 F 83D 001B80 47 10 F B8E	TM DATAXE3,X*10* WAS EQUIP CK ON FOR DATAB -00- BC ALLON,ALZO30 BRANCH IF ON	001C18 44 DC X'44' 001C19 07 DC X'07' 001C1A FD9D DC AL2(ERR 040-BASE®)	TURN ON
describer on the second of the	001B84 OA DO ALZO28 001B86 44 001B87 07 001B88 FD5E 001B8A 47 FO F CAO	SVC X'DO' ERR 031 - ALL CHANNEL REG BITS ARE DC X'44' ,, ALWAYS ON AND CANNOT BE DC X'07' ,, TURNED OFF. DC AL2(ERR031-BASEEREG) BC ALWAYS, EXITO1 GO TO NEXT ROUTINE	001C24 47 80 F C2E BC ALLOFF, ALZO52	WAS BIT 4 ALWAYS ON BRANCH IF ABLE TO RESET BIT 4 ERR 041 - CHANNEL REG 4 BIT IS ,, ALWAYS ON ,,
and the first property of the control of the contro	DATE 15JUL65 17MAR66 EC 124265 125643	ID F804-1 PAGE 8	DATE 15JUL65 17MAR66 EC 124265 125643	ID F804-1 PAGE 8A

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	IBM MAINTENANCE DIAGNOSTIC PROGRAM	P/N 840258 PAGE 9	IBM MA	INTENANCE DIAGNOSTIC PROGRA	AM		P/N 840258 PAGE 9A
The second secon	+ F8041 2821 SCAN/2540 READER/PUNCH F8041 CHANNEL REG FLT -ROUTINE OVERLAY 01-		* F804 F8041	1 2821 SCAN/2540 READER/P CHANNEL REG FLT -ROUTINE			
V party of the transfer of the state of the	OO1C2C FDA4 DC 001C2E 91 02 F 81B ALZ052 TM 001C32 47 80 F C40 BC 001C36 0A D0 SV(0 001C38 44 DC 001C39 07 DC 001C3A FDAB DC 001C3C 47 FO F C4E BC 001C40 91 01 F 81B ALZ054 TM 001C44 47 80 F C4E BC 001C48 0A D0 SV(0 001C48 07 DC 001C4C FDB2 DC	X'44' ,, TURN ON X'07' ,, AL2(ERR042-BASEGREG) ,, ALWAYS,ALZ056 DATA569,X'01' WAS BIT 5 ALWAYS ON ALLOFF,ALZ056 BRANCH IF ABLE TO RESET BIT 5	001CD0 001CD4 001CD8 001CDC 001CDE 001CE2 001CE4 001CE5 001CE6 001CE8 001CEC 001CE2	41 44 0 003 41 33 0 002 15 32 47 60 F CCA 0A DO 80 1D F84F 41 11 0 00A 15 10 47 60 F CBO	MVI LA LA CLR BC SVC DC DC LA CLR BC SVC BC	2(GR4),X'40' GR4,3(GR4,0) GR3,2(GR3,0) GR3,GR2 NEQUAL,LGDUT2 X'DO' X'80' X'1D' AL2(LGAREA-BASE®) GR1,10(GR1,0) GR1,GR0 NEQUAL,LGOUT1 X'DA' ALWAYS,EXIT CONSTANTS	MOVE BLANK UPDATE EXPANDED INDEX BY 3 UPDATE PACKED INDEX BY 2 WERE ALL POSITIONS MOVED GO MOVE NEXT CHAR IF NOT DONE LOG OUT TABLE ,, 29 BYTES ,, ADDR OF MESSAGE UPDATE DATA INDEX BY 10 WERE ALL LINES PRINTED GO DO NEXT LINE IF NOT HALT & WAIT FOR ACTION ROUTINE EXIT
	001C4E 91 02 F 825 ALZ056 TM 001C52 47 80 F C60 BC 001C56 0A D0 SVV 001C59 44 DC 001C5A FDB9 DC 001C5C 47 F0 F C6E BC 001C60 91 01 F 825 ALZ058 TM 001C64 47 80 F C6E BC 001C68 0A D0 SVV 001C6A 44 DC 001C6B 07 DC	X'44' X'07' AL2(ERR044-BASE®) ALWAYS,ALZ060 DATA6&9,X'01' WAS BIT 6 ALWAYS ON ALLOFF,ALZ060 BRANCH IF ABLE TO RESET BIT 6	001CF8 001CF8 001D00 001D00 001D10 001D18 001D1C 001D2C 001D2C	01 001844 2000 0002 C2 001849 2000 0001 C6 0017D0 2000 0003 C6 001234 2000 0064 0000000A F2F8F2F140E2C3C1D5 6 61F2F5F4F06B40 C3C8C1D5D5C5D340D9	* * * * * * * * * * * * * * * * * * *	CCW TABLE	DOUBLE WORD ALIGNMENT DIAG WRITE TO PNCH BUFF, SLI ON DATA READ FROM BUFFER, SLI ON DIAG CHECK READ CCW, SLI ON O DIAG READ FROM BUFFER, SLI ON
m a production of the description of the manufacture of the contract of the co	001C6E 91 02 F 82F ALZ060 TM 001C72 47 80 F C80 BC 001C76 0A D0 SY(001C78 44 DC 001C79 07 DC 001C7A FDC7 001C7C 47 F0 F C8E BC 001C80 91 01 F 82F ALZ062 TM 001C84 47 80 F C8E BC 001C88 0A D0 SY(001C8A 44 DC 001C8B 07 DC 001C8C FDCE	X'44' X'07' X'07' AL2(ERR046-BASE®) ALWAYS,ALZ064 DATA789,X'01' ALLOFF,ALZ064 BRANCH IF ABLE TO RESET BIT 7	001038 001044 001054 001055 001055 001065 001065 001077 001077	C2E4C6C6C5D940C1C4 C4D9C5E2E2C9D5 C74OD7D9D6C2D3C5D4 C000FF C5D9D940F0F3F0 C5D9D940F0F3F1 C5D9D940F0F3F2 C5D9D940F0F3F4 C5D9D940F0F3F4 C5D9D940F0F3F6 C5D9D940F0F3F6	MESS2 DC CLEAR DC * ERRO30 DC ERRO31 DC ERRO32 DC ERRO34 DC ERRO35 DC ERRO35 DC ERRO36 DC	C'BUFFER ADDRESSIN' C'G PROBLEM' X'0000FF' ERROR MESSAGES FOR CH C'ERR 030' C'ERR 031' C'ERR 032' C'ERR 033' C'ERR 034' C'ERR 035' C'ERR 036'	ALL CHANNEL REGISTER BITS ALWAYS ON ALL CHANNEL REG BITS ALWAYS OFF CHANNEL REG O BIT CANNOT TURN ON CHANNEL REG O BIT CANNOT TURN OFF CHANNEL REG 1 BIT CANNOT TURN ON CHANNEL REG 1 BIT CANNOT TURN OFF CHANNEL REG 2 BIT CANNOT TURN ON
The second of th	001C8E 47 F0 F CAO ALZ064 BC * 001C92	X'44' ,, ADDRESSING PROBLEM X'19' AL2(MESS2-BASE®) ,,	001088 001096 001096 001044 001082 001082 001083 001087 001087	C5D9D940F0F3F8 C5D9D940F0F3F9 C5D9D940F0F4F0 C5D9D940F0F4F1 C5D9D940F0F4F2 C5D9D940F0F4F3 C5D9D940F0F4F4 C5D9D940F0F4F6	ERRO37 DC ERRO38 DC ERRO39 DC ERRO40 DC ERRO41 DC ERRO43 DC ERRO43 DC ERRO45 DC ERRO45 DC ERRO46 DC ERRO47 DC ERRO47 DC REG EQU BASE EQU	C'ERR 037' C'ERR 038' C'ERR 040' C'ERR 041' C'ERR 042' C'ERR 043' C'ERR 044' C'ERR 046' C'ERR 046' C'ERR 047' X'F000' SECST	CHANNEL REG 2 BIT CANNOT TURN OFF CHANNEL REG 3 BIT CANNOT TURN ON CHANNEL REG 3 BIT CANNOT TURN OFF CHANNEL REG 4 BIT CANNOT TURN ON CHANNEL REG 5 BIT CANNOT TURN OFF CHANNEL REG 5 BIT CANNOT TURN ON CHANNEL REG 5 BIT CANNOT TURN OFF CHANNEL REG 6 BIT CANNOT TURN ON CHANNEL REG 6 BIT CANNOT TURN OFF CHANNEL REG 7 BIT CANNOT TURN OFF CHANNEL REG 7 BIT CANNOT TURN ON CHANNEL REG 7 BIT CANNOT TURN OFF
gamente, principaji (gli use, misperamente audiperante gant in decembrancia mantenante e a	001CA8	CONVERT TO PTINTABLE CHARS AL2(10) AL2(WRITE-SECST) AL2(LGAREA&9-SECST) GR2,LGAREA&27 GR3,LGAREA&9 GR4,LGAREA GR4,LGAREA GR4,LGAREA GR4,LGAREA GR4,LGAREA GR4,LGAREA GR4,LGAREA GR4,LGAREA GR4),O(GR3) ID F804-1	DATE	15JUL65 17MAR66	END		ID F804-1 PAGE 9A
1	EC 124265 125643	PAGE 9	EC	124265 125643			FAGE 9A

IBM MAII	NTENANCI	E DIAGN	IOSTIC F	PROGRAM								P/N PAGE	840258 10		IBM MA	INTENAN	CE DIAGNOSTI	C PROGRA	M									P/N 84 Page	40258 10A	go, and an artificial containing
* F8041 F8041)1 -											L SCAN/2540 EL REG FLT -			01-						• ''				count acceptations, acc
POST AS:	SEMBLY I	DATA.														1	2 HIG													***************************************
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RE	FERENCE:	S TO DE	FINED S	YMBOLS.	•											3	1231 UAP	. 1668 U 12F6	, 16D2	, 16DA,			18AE,							diameter district
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	1	1	GR1	1302, 19FE, 1B3E,	1402,	1A4E,	1A56,	1A72,	19FA, 1A80, 1B5E,	183A				4.00		1 1	8 AVAI 1848 CKRD	1 1930		, 1ACE				•						No. Science deliberation
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	1	3	GR3		1CBE, 1562,		1002,	1CCA,	1CD8,	1CD8						1	4 CSWS	15FE T 1520	, 1590											
	1	4	GR4	149A, 1CD4,	149E, 1CD4	14BA,	1406,	1006,	1CCA,	1CDO						10 10	17EO DATA	1B8E	, 19EA , 1BAC , 1BCC	, 1CAC	1488,	IABO,	183A •	IBDA						
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	1 .	9	GR9	1302, 1976,	15DE, 197E,	163E, 19EA,	165C, 1814,	16B2,	16B6,	18F8						10. 10	1826 DATA 1830 DATA	7 19F2 B 1B74	, 1A4E	, 1A52,	1818,	1832,	106E.	1080						
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• F8041 2821 SCAN/2540 READER/PUNCH	PAGE 11	* F8041 2821 SCAN/2540 READER/PUNCH	PAGE 11A
F8041 CHANNEL REG FLT -ROUTINE OVERLAY 01-		F8041 CHANNEL REG FLT -ROUTINE OVERLAY 01-	de company
1BC4, 1BD2, 1BE4, 1BF2, 1C04, 1C12, 1C24 1C32, 1C44, 1C52, 1C64, 1C72, 1C84, 1CA4 1 F ALWAYS 1366, 1392, 1308, 13EA, 1450, 146E, 1490 1508, 1512, 1528, 1558, 1562, 156C, 1598 15A2, 15E2, 1628, 1638, 1666, 1670, 16E2 1718, 1984, 198E, 19E4, 19E8, 1A12, 1A36 1A84, 1A9A, 1AA6, 1ACA, 1AEA, 1B06, 1B22 1B2E, 1B56, 1B70, 1B8A, 1B9C, 1BBC, 1BDC 1BFC, 1C1C, 1C3C, 1C5C, 1C7C, 1C8E, 1C9C		4 19C2 DGCK10 19BA 4 1988 DGCKRD 1938, 1966 7 1D57 ERR030 1B54 7 1D5E ERR031 1B88 7 1D65 ERR032 1B9A 7 1D6C ERR033 1BAC 7 1D73 ERR034 1BBA 7 1D74 ERR035 1BCC	
1CF4 4 1B26 ALZ000 1B22 4 1B32 ALZ005 1B2A 4 1B3E ALZ010 1B4C 2 1B50 ALZ015 1ACA 4 1B5A ALZ020 1B42 4 1B5E ALZ021 1B6C 4 1B74 ALZ025 1B62 2 1B84 ALZ028 1B70 4 1B8E ALZ030 1B78, 1B80 4 1BA0 ALZ032 1B92 4 1BAC ALZ034 1B9C, 1BA4 4 1BC0 ALZ036 1BBC, 1BC4 4 1BC0 ALZ046 1BBC, 1BC4 4 1BE ALZ044 1BDC, 1BE4 4 1C00 ALZ046 1BF2		7 1D81 ERRO36 1BDA 7 1D88 ERRO37 1BEC 7 1D8F ERRO38 1BFA 7 1D96 ERRO39 1COC 7 1D9D ERRO40 1C1A 7 1DAB ERRO41 1C2C 7 1DAB ERRO42 1C3A 7 1DB2 ERRO43 1C4C 7 1DB9 ERRO44 1C5A 7 1DC0 ERRO45 1C6C 7 1DC7 ERRO46 1C7A 7 1DCE ERRO47 1C8C 4 1CAO EXITO1 1B2E, 1B56, 1B8A, 1C8E 1 17DE EXPECT 1A26, 1A2C	
4 1COE ALZO48 1BFC, 1CO4 4 1C20 ALZO50 1C12 4 1C2E ALZO52 1C1C, 1C24 4 1C40 ALZO54 1C32 4 1C4E ALZO56 1C3C, 1C44 1 1C60 ALZO58 1C52 4 1C6E ALZO60 1C5C, 1C64 4 1C80 ALZO62 1C72 4 1 1C8E ALZO64 1C7C, 1C84 1 114C CAWKEY 131C, 14A2, 16BA, 1896 3 17D0 CKRDAR 193C, 196A, 19A0, 19B6, 19C2, 1DO8 4 19EA CRCKO0 1984 4 19FA CRCKO5 1AO4 6 1AOC CRCK10 1B1E		2 1870 INITOO 1922, 1956, 1982 2 1884 INIT10 1880 2 1894 INIT20 1890 3 107D IORADR 5 1078 IORPSW 12FC 29 184F LGAREA 1CBC, 1CBE, 1CC2, 1CC6, 1CE6 6 1CBO LGOUT1 1CEE 6 1CCA LGOUT2 1CDE 8 1070 MCRPSW 1 C MIXNON 153E, 15DA, 1878 1 6 NEQUAL 18D4, 18F0, 1980, 1A04, 1ABE, 1B1E, 1B4C 1 9 NMIXED	
4 1A16 CRCK11 1A3E, 1A78 4 1A1E CRCK20 6 1A26 CRCK30 4 1A3A CRCK35 1A12 4 1A52 CRCK38 1A84, 1A9A 2 1A76 CRCK39 1A5E, 1A66, 1AA6 4 1A88 CRCK40 1A6E 4 1A9E CRCK41 1A5A 4 1AA2 CRCK42 1A92 4 1AAA CRCK43 1A62 4 1AAE CRCK44 1A6A 4 1ABE CRCK460 1A32 4 1AAB CRCK51 1AC6 4 1ACE CRCK55 1ABE 4 1ACE CRCK60 1ADA 4 1AEE CRCK60 1ADA 4 1AEE CRCK80 1A1A, 1A22 4 1AFE CRCK81 1AF2		1 D NOTBSY 1 4 NOTZRO 8 1068 PIRPSW 8 1CF8 PWRCCW 1902 2 19E8 RETNCR 19BE, 19C6 1 179C SCHNUM 18AA, 1B36, 1C98 8 10E8 SCPCCW 1678, 167E, 1682, 168C, 169C, 16B2 180 1234 SCPDAT 10E8, 16A6, 16AC, 1716, 1720, 1D10 4 163E SCPROO 16F4, 18B6 2 1642 SCPR10 16DE 4 164C SCPR20 166C 4 165C SCPR30 1670, 16E2 4 1668 SCPR40 1650 4 1674 SCPR50 1658 4 16A2 SCPR51 1698 4 16B2 SCPR70 6 16CO SCPR80 16D6 4 16CA SCPR90 16CE	
4 1804 CRCK86 1AEA, 1806 6 180E CRCK90 1A36, 1AD2, 1AE2, 1AFA, 1802 8 1D08 CRDCCW 1988 4 112C CSWSAV 15A6, 18D0, 18EC, 1926, 195A 2 18BA DATAOO 18B2 4 18CO DATAO5 4 18DB DATAO8 6 18FC DATA10 1980, 19E4 6 1932 DATA20 4 1942 DATA30 6 1970 DATA40		4 10F0 SCPRK1 163E, 165C 16 1770 SCPRK2 1646 4 1730 SCPRK3 1648, 164C 4 1100 SCPRK4 1674, 1678, 1682, 1688, 168C, 1692, 16A2 16A6 4 1734 SCPRK5 2 179A SCPRKA 1692, 169C 1 1847 SENSE1 1932 1 1848 SENSE2 1960 6 130C SIOAOO 1376, 1392, 13C2, 13EA, 1416, 1450, 1490 1628	To a side discount of trades from the trades of the trades
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	2821 SCAN/2540 CHANNEL REG FLT -														2540 READE RAM -ROUTI	ER/PUNCH INE OVERLAY 02-
	4 136A SIOBO 4 1396 SIOCO) 1340) 136E						**								
	4 13DC SIOCO 4 13BE SIOCO	l 13D0	244 12		252	1440	1574									8041 TITLE F8041 CONTROL PROGRAM -ROUTINE OVERLAY 02-
	3 1738 SIOCN	1 12FC	.366, 13	AZ, I	3621	14469	1574			•	•				001000	XF8041 START 4096 USING *,15
	16 175E SIDCN 4 13EE SIDDO		.60C													****************
	6 141A SIODO	l 13FA, 1	.406, 14	0E												************************
	4 1448 \$IDDO 4 1454 \$IDEO											1				* RESIDENT LABELS ADDRESSED BY OVERLAYS +
	4 1472 SIDEO	1464													001000	SECST EQU *
	4 1482 SIDEO 6 1494 SIDFO	1454, 1	.5BA											1	001004 001040	SNSW EQU SECST&4 CSW EQU SECST&64
	6 14B0 SIDF0 2 150C SIDF0		.4E6												001048	CAW EQU SECST&72
	6 1516 SIDFO	3 1402, 1	524									1			0010E0 0010E2	UNIT1 EQU SECST&224 UN1ADR EQU SECST&226
	6 152C \$10F0 4 1532 \$10F0		. *											•	0010E4	UNIT2 EQU SECST&228
	2 154A SIOFO	5 1536, 1	.53E										,		0010E6 00112C	UN2ADR EQU SECST&230 SIDVR3 EQU SECST&300
	6 155C SIDFO 4 1564 SIDFO		508, 15	12. 1	558.	1568									001134 00114D	SIOVR4 EQU SECST&308 SIOSWS EQU SECST&333
	4 158C SIDIO	1594, 1	.5A2												0011F8	STATSV EQU SECST&504
	6 159C SIDIO 6 15A6 SIDIO								•						0011FA 001231	CSWAG EQU SECST&506 UAPU EQU SECST&561
	4 15C6 SIDIO 4 15DE SIDIO		.582								.*.				00112C	CSWSAV EQU SECST&300
	6 15E4 \$IDIO	5 15C2 , 1	.502 .5CA, 15	D2, 1	5DA							ą.			00114C 0011F7	CAWKEY EQU SECST&332 SENSE EQU SECST&503
	6 160C SIDIO 2 162C SIDIO														00122D	UARD EQU SECST&557
	4 1570 SIDIN	T 107D, 1	738												001234 00163E	SCPDAT EQU SECST&564 SCPROO EQU SECST&1598
	16 114E SIOMS		.356, 13 .3AC, 13	5C, 1			1382,	1388							0012E8	SIO EQU SECST8744
	16 1184 SIOMS	2 1414, 1	426, 14	34, 1	436,	14467	145E,	146C							001202 000048	MESS1 EQU SECST&514 HCAW EQU 72
			.5E4 , 15 .626 , 16		5F8,	15FA,	160A,	160C							000040	HCSW EQU 64
	16 11C1 SIOMS	3 1494, 1	4AE, 14	CA, 1			14EA,	14EE							0016EC 0016E6	EXIT EQU SECST&1772 EXITBY EQU SECST&1766
	16 173B SIOMS		.506 , 15 .636	10, 1	550,	1556			en en en en en en en en en en en en en e						00179C	SCHNUM EQU SECST&1948
	1 114D SIOSW	12EE, 1	334, 13				1700,								001015	ORG SECST&21
			.916 , 19 .900	112, 1	94A,	1952,	1990,	1946				00101	5 0019	934	0017D0	DC AL3(RTNO2) INITIAL PSW STARTING ADDR FOR RTN O2 ORG SECST&2000
	4 1104 SIOVR 4 1128 SIOVR		5DE 55 C, 1 6	40											001100	***************************************
	4 1126 SIOVR		30C, 16		432,	143A,	1448,	1578				-	*			* VARIABLE FIELDS **
	4 1134 SIOVR	1784 1330, 1	33C, 13	۸۸ - 1 ·	306								-			* VARIABLES FOR ANALYZE ROUTINE - NO BOUNDARY *
	3 1180 SIOVR	12E8, 1	2F6, 13			13AE,	141A,	1494				00170	0000	000000	00000000	**************************************
	1 1183 SIOVR	15E4 5 13F6, 1	3FF. 14	72								00170			00000000	
	4 1138 SIOVR	7 1406, 1	4CE, 14	E2								0017E			00000000	
	4 113C STOVR	3 14F4, 1 1542, 1	.4FE, 15 .54E	16, 1	516,	1520,	1532,	153A				0017F 0017F		0000000	00000000	
	4 1144 SIOVR)										00180			.0000	CKRDAR DC XL1'0' CHECK READ DATA BYTE
	8 1728 SNSCC 1 1845 STAT1	1906, 1	906, 19	26								00180	5 0000	0000000	00000000	# DATAWK DC XL20*0*
	1 1846 STAT1 2 11F8 STATS	3 192C / 1586, 1	586- 15	9C. 11	5AC -	1025						00180	E 0000	000000	00000000	The second secon
	5 1060 SVRPS	1	.500 , 15	309 I	JAU	1726						00181			00000000	DATA12 DC X'500000000000000000 DATA REG 12 BIT DATA GROUP
	16 1D1C TITLE 1 17DD TSTCH											00182	2 2000	000000	00000000	DC X'2000000000000000000000000000000000000
	2 10E2 UN1AD	1304, 1	708, 18	9E, 1	8E0,	199C						00182			00000000	DATA11 DC
	2 10E6 UN2AD 1 1000 XF804		846, 18	BC, 1	8F4,	1994					* '	00183	6 1000	000000	00000000	DC X*1000000000000000000000000000000000000
			*									00183 00184	1 F000	000000	00000000	DATAO DC X'F0000000000000000 DATA REG O BIT DATA GROUP
												00184 00185			00000000	DC X • 0800000000000000000000 , ,
	NO EPPO	DETECTED I	N AROVE	V CCEMBI	. V							00185	5 F100	000000	00000000	DATA1 DC X'F1000000000000000 DATA REG 1 BIT DATA GROUP
	NO ERRO	. DETECTED 1	M ADOVE	MJJEMOI	. 1							00185	6 0400	0000000	00000000	DC X*0400000000000000000000000000000000000
DATE	15JUL65 17MAR66									T D	F804-1	DATE	15JUL6	46 17	MADAA	andre de la Maria de Carlos de la Carlos de la Carlos de Carlos de la Carlos de Carlos de Carlos de Carlos de La Carlos de Carlos de Carlos de Carlos de Carlos de Carlos de Carlos de Carlos de Carlos de Carlos de Carlos
EC	124265 125643										12	DATE	124265		MAR66 5643	ID F804-1 PAGE 12A



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IBM MAI	WTENANCE DIAGNOSTIC PROGR	AM	·	P/N 84 PAGE	40258 IBM MAI 13	NTENANCE DIAGNOSTIC PROC	GRAM		P/N 840258 Page 13a
* F8041 F8041	2821 SCAN/2540 READER/ CONTROL PROGRAM -ROUTINE					2821 SCAN/2540 READER CONTROL PROGRAM -ROUTIN			
001867 001869 001872 00187B	0000 F2000000000000000000 0200000000000	DATA2 DC	X*F20000000000000000 X*02000000000000000000	DATA REG 2 BIT DATA GROUP	001974 001978	41 90 F 819 , 1B CC	# DATAOO LA SR	GR9,DATA12 GRC,GRC	SET REG 9 TO TABLE START -INDEX REG- RESET REG 12
00187D 001886	F30000000000000000 0100000000000000000	DATA3 DC DC	X*F30000000000000000 X*01000000000000000000	DATA REG 3 BIT DATA GROUP			*	GATHER PUNCH BUFFER D	
00188F 001891 00189A	0000 F4000000000000000000 00200000000000	DATA4 DC	X*F40000000000000000 X*002000000000000000000	DATA REG 4 BIT DATA GROUP	00197A	D2 13 F 805 9 000	DATA10 MVC	DATAWK(20),0(GR9) ************************************	SET A DATA GROUP IN WORK AREA ***********************************
0018A3 0018A5 0018AE 0018B7	0000 F500000000000000000 001000000000000	DATA5 DC DC	X*F50000000000000000 X*001000000000000000000	DATA REG 5 BIT DATA GROUP	001980 001984 00198A	41 00 F D58 D7 07 F 806 F 806 D7 06 F 810 F 810	LA XC XC	GRO,PWRCCW DATAWK&1(8),DATAWK&1 DATAWK&11(7),DATAWK&1	LOAD ADDR OF PUNCH WRITE CCW CLEAR WORK AREA EXCEPT WRITE DATA
0018B9 0018C2 0018CB	F6000000000000000 000800000000000000 0000	DATA6 DC DC	X*F60000000000000000000* X*00080000000000000	DATA REG 6 BIT DATA GROUP	001990 001994 001998	50 00 F 048 92 00 F 14D 48 C0 F 0E6	ST MVI LH	GRO,CAW SIOSWS,X*OO* GRC,UN2ADR	STORE PUNCH CCW ADDR IN CAW RESET SIO SWITCHES -USE PUNCH- SET PUNCH I/O ADDR IN GR12
0018CD 0018D6 0018DF	F70000000000000000 000400000000000000 0000	DATA7 DC DC	X*F70000000000000000 X*00040000000000000000	DATA REG 7 BIT DATA GROUP	00199C 0019A0	45 B0 F 2E8 91 01 F 14D	BAL *	GRB,SIO SIOSWS,X*O1*	GO TO START I/O ROUTINE IS INTERVENTION REQ SWITCH SET
0018E1 0018EA 0018F3	F80000000000000000 000200000000000000 0000	DATA8 DC DC	X*F80000000000000000* X*00020000000000000000	DATA REG 8 BIT DATA GROUP	0019A4 0019A8 0019AE	47 10 F 942 D2 00 F 806 F 130 D2 00 F 807 F 1F8	BC MVC MVC	ALLON, INITOO PWSTA1(1), CSWSAV&4 PWSTA2(1), STATSV	RESTART PROGRAM IF ON SAVE CHAN-END STATUS FOR PUNCH WRITE SAVE DEV-END STATUS FOR PUNCH WRITE
0018F5 0018FE 001907	F90000000000000000 000100000000000000 0000	DATA9 DC DC	X*F9000000000000000000000000000000000000	• •	0019B4 0019BA	D2 00 F 808 F 1F7 45 A0 F A6E	* DATA20 MVC BAL	PWSNS(1), SENSE GRA, DGCKRD	SAVE SENSE DATA FOR PUNCH WRITE GO DO DIAG CK READ TO PUNCH
001909 001912 001918	40000000000000000 000000000000000000 0000	DATAB DC DC	X*4000000000000000000000000000000000000	DATA REG BLANK DATA GROUP	0019BE	D2 00 F 809 F 804	MVC **********	PWCKRD(1),CKRDAR READ PUNCH DATA IS CO	SAVE CK RD DATA FROM PUNCH WRITE
00191D 001926 00192F 001931	310000000000000000 040100000000000000 0000 00	DATAEX DC DC PROGSW DC	X'31000000000000000000000000000000000000	DATA REG EXTRA GRP-9 & 1 BIT	0019C4 0019C8 0019CC	41 00 F D68 50 00 F 048 92 00 F 14D	DATA30 LA ST MVI	GRO,PRDCCW GRO,CAW SIDSWS,X*OO*	LOAD ADDRESS OF PUNCH READ CCW SET CCW ADDR IN CAW RESET SIO SWS -USE PUNCH-
001931	00	********** * ROUT	**************************************	**********	**** 0019D0	45 BO F 2E8	BAL	GRB, SID	GO TO START I/O ROUTINE
001932 001932 001934 001935 001936	07 00 02 00 FFFE	CNOP BCR RTNO2 DC DC DC	0,4 FUL 0,0 XL1'02' ROU XL1'0' FLA X'FFFE' ADD	RESS OF NEXT ROUTINE	0019D8 0019DC 0019E2 0019E8 0019EC	91 01 F 14D 47 10 F 942 D2 00 F 80B F 130 D2 00 F 80C F 1F7 45 A0 F A6E D2 00 F 80D F 804	TM BC MVC MVC BAL MVC	SIOSWS,X*01* ALLON,INITOO PRSTA(1),CSWSAV&4 PRSNS(1),SENSE GRA,DGCKRD PRCKRD(1),CKRDAR	IS INTERVENTION REQ SWITCH ON RESTART PROGRAM IF ON SAVE STATUS FROM PUNCH BUFFER READ SAVE SENSE DATA AFTER PUNCH READ GO DO DIAG CK RD TO PUNCH SAVE CK RD DATA AFTER PUNCH-READ
001938	95 00 F 79C	* CLI		IF SHLD RUN CTL PGM	***		*********	**************************************	**************************************
00193C 001940 001942 001946	47 80 F 942 0A D6 91 40 F 931	BC SVC INITOO TM	X'D6' ROU PROGSW, X'40' IS	H IF YES TINE EXIT RUN RTN SWITCH ON	excursion and property.	•	*	WRITE READER DATA IS	**************************************
001948 00194E 001952 001956 00195A	47 80 F 94E 92 00 F 79C 95 00 F 79C 47 60 F 6EC 96 40 F 931 91 02 F 004	BC MVI INITO5 CLI BC OI TM	SCHNUM, X*00' RES SCHNUM, X*00' IS NEQUAL, EXIT BYP PROGSW, X*40' TUR	IF NO ET SEARCH NO. SEARCH NO. RESET ASS ROUTINE N ON RUN RTN SWITCH TITLE PRINTOUT DESIRED	0019F2 0019F6 0019FA 0019FE	41 00 F D60 50 00 F 048 92 00 F 14D 45 80 F 2E8	DATA40 LA ST MVI BAL	GRO,RWRCCW GRO,CAW SIOSWS,X*OO* GRB,SIO	LOAD ADDR OF READ WRITE CCW SET CCW ADDR IN CAW RESET SIO SWS -USE PUNCH ADDRESS- GO TO START I/O ROUTINE
00195E 001962 001964 001965 001966	47 80 F 968 OA DO 80 1F FD84	BC SVC DC DC DC	ALLOFF, INIT10 BRA X'DO' PRI X'80' ,, X'IF' ,,	NCH TO SKIP TITLE PRINT NT TITLE NORMAL OUTPUT 31 CHARACTERS ADDRESS OF TITLE	001A02 001A06 001A0A 001A10 001A16	91 01 F 14D 47 10 F 942 D2 00 F 810 F 130 D2 00 F 811 F 1F7 96 02 F 14D 45 A0 F A6E	TM BC MVC MVC OI BAL	SIDSWS,X'01' ALLON,INITOO RWSTA(1),CSWSAV&4 RWSNS(1),SENSE SIDSWS,X'02' GRA,DGCKRD	IS INTERVENTION REQ SWITCH ON RESTART PROGRAM IF ON SAVE STATUS FROM READ BUFFER WRITE SAVE SENSE DATA AFTER RD BUFF WRITE SET SIO SWITCH FOR READER GO DD DIAG CK READ FOR RD BUFF WRITE
001968 001960 001970	91 40 F 004 47 80 F 974 45 80 F 63E	INIT10 TM BC BAL	ALLOFF,DATAOO BR	IF SEC SS 04 IS 1 - USE SCP R IF NO TO UTILITY ROUTINE		D2 00 F 812 F 804	MVC	RWCKRD(1),CKRDAR	SAVE CK RD DATA AFTER RD BUFF WRITE
		* * THIS * ROUT	DATA ACCUMULATION ROUTINE ROUTINE ACCUMULATES ALL TH	E DATA NECESSARY FOR THE ANALY	7ZE 001A30 001A30 001A34	41 00 F D70 50 00 F 048 92 02 F 14D 48 C0 F 0E2 45 B0 F 2E8	* DATA50 LA ST MVI LH BAL	GRO, RRDCCW GRO, CAW SIOSWS, X°O2° GRC, UNIADR GRB, SIO	LOAD ADDR OF READ BUFF READ CCW SET CCW ADDR IN CAW RESET SIO SWITCHES -USE READER- LOAD READER ADDR IN REG 12 GO TO START I/O ROUTINE
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P/N 840258 PAGE 15 18M MAINTENANCE DIAGNOSTIC PROGRAM

* F8041 2821 SCAN/2540 READER/PUNCH F8041 CONTROL PROGRAM -ROUTINE OVERLAY 02P/N 848258 PAGE 15A

* F8041 2821 SCAN/2540 READER/PUNCH F8041 CONTROL PROGRAM -ROUTINE OVERLAY 02-

	,						

001BBA	D5 00 F		F 80A	ALZ DOO		PCHWR(1),PCHRD	BR IF DATA READ FROM PCH BUF OK
001BC0	47 80 F				BC	EQUAL, ALZDIO	OD TE COT VIATE
001BC4 001BC8	91 02 F 47 10 F				TM BC	PRCKRD, X 1021	BR IF GOT XLATE
001BCC	D5 00 F		F 813		CLC	ALLGN, ALZFOO PCHWR(1), RDRD	SEE IF DATA READ FROM READ BUFF OK
001BD2	47 80 F		. 013		ВС	EQUAL, ALZDO1	BRANCH IF YES
001BD6	OA DO	020			SVC	X'DO'	ERR 011 - DATA REG PROB - GOT
001BD8	44				DC	X * 44 *	(NA.X.NP) (D.NA.NX)
001BD9	07				DC	X 1071	
001BDA	FDE9				DC	AL2(ERRO11-BASE®)	
001BDC	47 FO F	CB6			вС	ALWAYS, ALZH11	SELECT READ XLATE FLT
001BE0	OA DO			ALZD01		X'DO'	ERR 025 - PUNCH XLATE PROB
001BE2	44				DC DC	X*44*	**
001BE3	O7 FE4B				DC	X'07' AL2(ERR025-BASE®)	11
001BE4 001BE6	47 FO F	RAR			BC	ALWAYS, ALZC51	SET UP SEARCH NO. FOR PCH XLATE FLT
001BEA	91 02 F			ALZD10		PRCKRD,X*02*	BR IF GOT XLATE
OOIBEE	47 10 F				BC	ALLON, ALZD20	11
001BF2	OA DO	J. J			SVC	X'D0'	ERR 012 - GOT FALSE PCH XLATE - GOT
001BF4	44				DC	X * 44 *	(NA. X. NP) (ND. NA. NX)
001BF5	07				DC	X • 07 •	
001BF6	FDF0				DC	AL2(ERRO12-BASE®)	
001BF8	47 FO F	CDA			вс	ALWAYS, LGOUTA	GO SEE IF WANT LOG OUT
001BFC	OA DO			ALZD20		X.DO.	ERR 013 - MULTIPLE ERRORS - APPEAR
001BFE	44				DC	X*44*	TO HAVE FALSE PUNCH AND FALSE READ
001BFF 001C00	07 FDF7	•			DC DC	X'07' AL2(ERRO13-BASE®)	XLATE - GOT (NA.X.NP)(ND.NA.X)
001C02	47 FO F	: CDA			BC	ALWAYS.LGOUTA	GO SEE IF WANT LOG OUT
001002	47.10.1	CDA		******		**********	
				*	COME	HERE IF GOT (NA.NX.NP)	(ND.NA.NX.NP) - CHECK RWCKRD HERE / *
				*****	****	*******	***********
001006	91 02 F			ALZE00		RWCKRD,X ° Q2 °	BR IF GOT XLATE
001C0A	47 10 F				BC	ALLON, ALZE10	11
001C0E	91 04 F				TM	RWCKRD,X'04'	BR IF DID NOT GET PARITY
001012	47 80 F	C4E			BC	ALLOFF, ALZGOO	77 500 014 54155 040774 611 0 NOT
001016	OA DO				SVC	X'D0'	ERR 014 - FALSE PARITY SHLD NOT
001C18 001C19	44 07				DC DC	X'44' X'07'	CHECK PARITY DURING DIAG WRITE - GOT (NA.NX.NP)(ND.NA.NX.NP)(NA.NX.P)
001C14	FDFE				DC	AL2(ERRO14-BASE®)	(NA+NA+NF) (ND+NA+NA+NF) (NA+NA+F)
001C1C	47 FO F	CDA			BC	ALWAYS, LGOUTA	GO SEE IF WANT LOG OUT
001020	OA DO			ALZE10		X*D0*	ERR 015 - FALSE PUNCH XLATE CHECKS -
001022	44				DC	X 4 4 4 1	SHLD NOT XLATE CHECK DURING COL BIN
001C23	07				DC	X * 07 *	WRITE - GOT (NA.NX.NP)(ND.NA.NX.NP)
001024	FE05				DC	AL2(ERRO15-BASE®)	
001C26	47 FO F	CDA			BC	ALWAYS, LGOUTA	GO SEE IF WANT LOG OUT
				****			*********
				*			(D.NA.X) - CHECK RWCKRD HERE *
00'1 C 2 A	91 02 F	912	,	ALZFOO		RWCKRD,X'02'	BR IF DID NOT GET XLATE
001C2E	47 80 F			ALZIOO	BC	ALLOFF, ALZF10	
001022	OA DO	0.50			SVC	X*DO*	ERR 016 - FALSE XLATE - SHLD NOT GET
001032	44				DC	X*44*	XLATE DURING DIAG (COL BIN) WRITE -
001C35	07				DC	X'07'	GOT (NA.X.NP)(D.NA.X)(NA.X) - WE
001036	FEOC				DC	AL2(ERRO16-BASE®)	
001C38	47 FO F	CDA			вс	ALWAYS, LGOUTA	GO SEE IF WANT LOG OUT
001C3C	91 04 F			ALZF10	MT	RWCKRD,X . 04.	BR IF DID NOT GET PARITY
001C40	47 80 F	C94			ВС	ALLOFF, ALZHOO	**
001C44	OA DO				SVC	X'DO'	ERR 017 - GOT FALSE PARITY - SHLD
001046	44				DC	X1441	NOT GET PARITY DURING BUFFER WRITE -
001047	07				DC	X 107 1	GOT (NA.X.NP)(D.NA.X)(NA.NX.P)
001C48	FE13 47 FO F	CDA			DC 8C	AL2(ERRO17-BASE®)	GO SEE IF WANT LOG OUT
UUICHA	47 60 6	CDA		*****			######################################
				*			(ND.NA.NX.NP)(NA.NX.NP) - CHECK *
				*		D HERE	* * * * * * * * * * * * * * * * * * *
				****			****
001C4E	D5 00 F	805	F 813				BR IF DATA READ FROM READ BUFF OK
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001054	47 80 F	C62		вс	EQUAL, ALZG10	, ,
001054	0A D0	CO2		SVC	X'DO'	ERR 018 - READ BUFFER OR DIAG WRITE
001C5A	44			DC	X1441	RPOB - GOT (NA.NX.NP)(ND.NA.NX.NP)
001C5B	07			DC	X'07'	(NA.NX.NP) (D.NA)
	FE1A			DC	AL2(ERRO18-BASE®)	(MACMACHI / COMA)
001050		607		0.0		CCLECT DEAD VIATE ELT
001C5E	47 FO F	CB6	ALZG10	BL	ALWAYS, ALZH11	SELECT READ XLATE FLT
001062	91 02 F	816	ALZG10		RRCKRD,X'02'	BR IF DID NOT GET XLATE
001066	47 80 F	C74		вс	ALLOFF,ALZG20	• • • • • • • • • • • • • • • • • • • •
001C6A	OA DO			SVC	X'DO'	ERR 019 - READ XLATE CHECK FALSE AND
001C6C	44			DC	X'44'	INTERMITTENT - GOT (NA.NX.NP)(ND.NA.
001C6D	07	•		DC	X'07'	NX.NP) (NA.NX.NP) (ND.NA.X)
001C6E	FE21			DC	AL2(ERRO19-BASE®)	
001070	47 FO F	BAS .	ALZG20	BC	ALWAYS, ALZC51	SET UP SEARCH NO. FOR PCH XLATE FLT
001074	91 04 F	014	AL 7620	TM	RRCKRD,Xº04°	BR IF GOT PARITY
	47 10 F		ALLUZU	BC	ALLON, ALZG30	
001078		COA				BR IF END
001C7C	15 12			CLR	GR1,GR2	
001C7E	47 80 F	CDE		BC	EQUAL, LGOUTO	11
001C82	5E 10 F	D80		AL	GR1,ALZKA1	GET NEXT GROUP OF DATA
001C86	47 FO F	B1C		вс	ALWAYS,ALZB10	11
001C8A	OA DO		ALZG30	SVC	X*DO*	ERR 020 - INTERMITTENT PARITY PROB -
001080	44			DC	X ' 44 '	GOT (NA.NX.NP)(ND.NA.NX.NP)(NA.NX.
001C8D	07			DC	X * 07 *	NP) (ND.NA.NX.P)
001C8E	FE28	·		DC	AL2(ERRO20-BASE®)	
001090	' 47 FO F	CDA	ALZG40	B.C		GO SEE IF WANT LOG OUT
001070	77 10 1	CDA	*****	*****		**********
			*			D.NA.X)(NA.NX.NP) - CHECK *
			-		D HERE	Deltas XI (tarefactor) Circuit
			*****			*****
001094	DE 00 E	805 F 813				BR IF DATA READ FROM READ BUFF OK
001C9A	47 80 F	005 1 015	ALZIIOO	BC	EOUAL ALTHOU	
					EQUAL, ALZH20 RRCKRD, X O2 *	BR IF GOT XLATE
001C9E	91 02 F				RRCRD, A-UZ-	
001CA2	47 10 F	CBO		BC	ALLON, ALZH10	77
001CA6	OA DO			SVC	X'DO'	ERR 021 - MULTIPLE ERRORS - GOT
001CA8	44			DC	X • 44 •	(NA.X.NP) (D.NA.X) (NA.NX.NP) (D.NA.NX
001CA9	07			DC	X'07'	
OO1CAA	FE2F	*		DC	AL2(ERRO21-BASE®)	
001CAC	47 FO F	CDA		вС	ALWAYS, LGOUTA	GO SEE IF WANT LOG OUT
001CB0	OA DO		ALZH10	SVC	X'D0'	ERR 022 - PROB IN DATA REG OR READ
001CB2	44			DC	X'44'	XLATOR - GOT (NA.X.NP)(D.NA.X)
001CB2	07			DC	X'07'	(NA.NX.NP) (D.NA.X)
001CB3	FE36			DC	AL2(ERRO22-BASE®)	(MACHACINI / COURSEA)
	92 84 F	700	ALZH11		SCHNUM, X'84'	SET UP TO SELECT READ XLATE FLT
001086	92 04 F	790	METULI			GO SEE IF WANT LOG OUT
001CBA	47 FO F			BC	ALWAYS, LGOUTO	
OOLCBE	91 02 F		ALZH20		RRCKRD,Xº02º ALLON,ALZH30	BR IF GOT XLATE
001CC2	47 10 F	CD0		ВС		11
001006	OA DO			SVC	X.DO.	ERR 023 - MULTIPLE ERRORS - GOT
001008	44			DC	X • 44 •	ERR 023 - MULTIPLE ERRORS - GOT
001009	07			DC.	X • 07 •	NX)
001CCA	FE3D			DC .	AL2(ERRO23-BASE®)	
OOICCC	47 FO F	CDA		вС	ALWAYS, LGOUTA	GO SEE IF WANT LOG OUT
001CD0	OA DO		ALZH30	SVC	X*D0*	ERR 024 - PROBLEM IN PUNCH XLATOR
001CD2	44			DC.	X*44*	GOT (NA.X.NP) (D.NA.X) (NA.NX.NP)
001CD3	07			DC.	X*07*	(ND.NA.X)
				DC	AL2(ERRO24-BASE®)	
001CD4						
001CD6	47 FO F	DAÖ	*****	BC	ALWAYS, ALZC51	######################################
			****	*****		
			*			LE IS LOGGED OUT HERE
				****	*********	*******
			*			CET UP TO DUDICE ALL DEMAINING OWNER
001CDA	92 FF F		LGOUTA		SCHNUM, X'FF'	SET UP TO BYPASS ALL REMAINING OVLYS
001CDE	91 20 F		LGDUTO		· · · · · · · · · · · · · · · · · · ·	IF SEC SS 02 IS 1 - LOGOUT WANTED
001CE2	.47 10 F			вС		F YES
001CE6	47 FO F	D40		вС	ALWAYS, LGOUTX	
001CEA	41 10 F		LGDUT	LA	GR1,DATAWK	LOAD GR 1 WITH ADDR OF LOG OUT
OOICEE		805 1 000	LGOUT1		DATAWK(20),0(GR1)	SET UP DATA FOR PRINTOUT
001CF4	OA DD		· - · -	SVC	X*DD*	CONVERT TO PRINT FORM
001CF6	0012			DC	AL2(18)	18 HEX BYTES
001CF8	0805			DC	AL2(DATAWK-SECST)	HEX DATA ADDRESS
201010	0005					······································
DATE	15JUL65	17MAR66				ID F804-1
EC		125643				PAGE 15A
LU	124265	167043				1,400 154



	TOWN WATERWAYS OF TAXABLE PROPERTY.		
	18M MAINTENANCE DIAGNOSTIC PROGRAM	P/N 840258 PAGE 16	IBM MAINTENANCE DIAGNOSTIC PROGRAM P/N 840258 PAGE 16A
	* F8041 2821 SCAN/2540 READER/PUNCH F8041 CONTROL PROGRAM -ROUTINE OVERLAY 02-		* F8041 2821 SCAN/2540 READER/PUNCH F8041 CONTROL PROGRAM -ROUTINE OVERLAY 02-
the contract of the production of the contract	001CFA 07EO DC 001CFC 41 60 F 7EB LA 001D00 41 00 F 802 LA 001D04 41 30 F 7EO LA 001D0C D2 01 4 000 3 000 LGOUTZ MVC 001D12 41 33 0 002 LA 001D16 15 46 CLR 001D10 41 44 0 002 BC 001D10 41 44 0 002 BC 001D20 47 F0 F D0C BC 001D24 92 40 4 002 LGDUT3 MVI 001D28 41 44 0 003 LA 001D20 15 30 CLR 001D25 47 60 F D0C BC 001D32 0A D0 SVC 001D34 80 DC 001D35 34 DC 001D36 F7D0 DC 001D38 15 12 CLR 001D3B 0A DA SVC 001D40 91 40 F 004 LGOUTX TM	AL2(ALZVO1816-SECST) PRINT ADDRESS GR6,ALZVO1827 SET CK ADDR FOR RD/WR DATA GR0,ALZVO1850 SET UP MAX PACKED ADDR GR3,ALZVO1816 INIT INDEX 3 - USED TO ADDR PACKED GR4,ALZVO1 INIT INDEX 4 - USED TO ADDR UNPACK O(2,GR4),O(GR3) MOVE CHARACTERS GR3,2(GR3,0) UPDATE PACK INDEX BY 2 GR4,GR6 ARE WE AT 1ST RD/WR CHAR NEQUAL,LGOUT3 BRANCH IF NO GR4,2(GR4,0) UPDATE UNPACK ADDR INDEX BY 2 ALWAYS,LGOUT2 GO MOVE NEXT CHAR GR4,3(GR4,0) UPDATE UNPACK ADDR INDEX BY 3 GR3,GR0 WERE ALL POSITIONS MOVED NEQUAL,LGOUT2 GO MOVE NEXT CHAR IF NOT LOG OUT TABLE X'80' X'34' AL2(ALZVO1-BASEEREG) GR1,GR2 BR IF NOT END NEQUAL,LGOUT4 X'DA' SET SENSE SWS AS DESIRED, THEN INTERRUPT SNSW,X'40' SEE IF SEC SS 01 IS 1 - USE SCOPE RTN	001DF7
	001D44 47 80 F D4C BC 001D48 45 80 F 63E BAL 001D4C 47 F0 F 6EC LGOUTY BC 001D50 5E 10 F D80 LGOUT4 AL 001D54 47 F0 F CEE BC	ALLOFF,LGOUTY BR IF NO GRO,SCPROO BR TO SCOPE ROUTINE ALWAYS,EXIT ROUTINE EXIT GRI,ALZKA1 ADD 20 TO GR1 ALWAYS,LGOUTI	001808
	* * * * * * * * * * * * * * * * * * *	CONSTANTS CCW TABLE	00180E RDWR EQU DATAWK&9 001810 RWSTA EQU DATAWK&11 001811 RWSNS EQU DATAWK&12 - 001812 RWCKRD EQU DATAWK&13
	001D58	O,8 X'O1',PCHWR,X'2O',1 X'25',RDWR,X'2O',2 DIAG WRITE TO PNCH BUFF, SLI ON X'C2',PCHRD,X'2O',1 DATA READ FOR PUNCH BUFF, SLI ON X'C2',RDRD,X'2O',1 DATA READ FROM READ BUFF, SLI ON X'C6',CKRDAR,X'2O',1 DIAG CHECK READ CCW, SLI ON ***********************************	001813 RDRD EQU DATAWK&14 001814 RRSTA EQU DATAWK&15 001815 RRSNS EQU DATAWK&16 001816 RRCKRD EQU DATAWK&17 ************************************
	001D80 00000014 ALZKA1 DC	**************************************	000002 GR2 EQU 2 000003 GR3 EQU 3 000004 GR4 EQU 4
	001D84 F2F8F2F140E2C3C1D5 TITLE1 DC 001D8D 61F2F5F4F06B40 001D94 C3D6D5E3D9D6D340D7 DC	C'2821 SCAN/2540, ' C'CONTROL PROGRAM'	000005 GR5 EQU 5 000006 GR6 EQU 6 000007 GR7 EQU 7
	#	######################################	000008 GR8 EQU 8 000009 GR9 EQU 9 00000A GRA EQU 10
	001DA3 C5D9D940F0F0F1 ERR001 DC 001DAA C5D9D940F0F0F2 ERR002 DC 001DB1 C5D9D940F0F0F3 ERR003 DC 001DB8 C5D9D940F0F0F4 ERR004 DC 001DBF C5D9D940F0F0F5 ERR005 DC 001DC6 C5D9D940F0F0F6 ERR006 DC	C'ERR 001' BUFFER ADDRESSING PROBLEM C'ERR 002' *** RESERVED *** C'ERR 003' *** RESERVED *** C'ERR 004' *** RESERVED *** C'ERR 005' READ XLATE TO CHAN REG PROBLEM C'ERR 006' BUFFER INHIBIT LINES AND/OR CONTROLS ,, OR SENSE AMPS	00000B GRB EQU 11 00000C GRC EQU 12 00000D GRD EQU 13 00000E GRE EQU 14 00000F GRF EQU 15 ************************************
1	001DCD	C'ERR 007' READ XLATE TO CHAN REG PROBLEM C'ERR 008' BUFFER INHIBIT LINES AND/OR CONTROLS ,, OR SENSE AMP	000078 HION EQU 120 HARDWARE I/O NEW PSW LOCATION 000008 ALLOFF EQU 8 ALL OFF 0
1	001DDB	C'ERR 009" PROB IN PARITY INHIBIT LINES OR , HAVE INTERMITTANT PARITY C'ERR 010' FALSE READ XLATE PROB IN READ XLATE	000001 ALLON EQU 1 ALL ON 3 000004 MIXED EQU 4 MIXED 1
1	001DE9 C5D9D940F0F1F1 ERR011 DC 001DF0 C5D9D940F0F1F2 ERR012 DC	,, CHECK CIRCUITS C'ERR 011' DATA REGISTER PROBLEM C'ERR 012' FALSE PUNCH TRANSLATE CHECK	000009 NMIXED EQU 9 NOT MIXED 0 3 000008 EQUAL EQU 8 EQUAL 0 000006 NEQUAL EQU 6 NOT EQUAL 1 2 000004 LOW EQU 4 LOW 1
	DATE 15JUL65 17MAR66 EC 124265 125643	ID F804-1 PAGE 16	DATE 15JUL65 17MAR66 ID F804-1 EC 124265 125643 PAGE 16A



* F8041 2821 SCAN/2540 READER/PUNCH F8041 CONTROL PROGRAM -ROUTINE OVERLAY 02-

HIGH EQU ZERO EQU GZERO EQU 000002 000008 000002 AVAIL EQU CSWST EQU BUSY EQU ALWAYS EQU NOTBSY EQU NZERO EQU 000008 000004 000002 00000F 2 15 13 7 00000D 000007 NOTZRO EQU 4
NOTZRO EQU 4
MIXNON EQU 12
REG EQU X'FOOO'
BASE EQU SECST
END 000004 00000C 00F000 001000

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HIGH ZERO

GREATER ZERO

BUSY 2
UNCONDITIONL 0 1 2 3
NOT BUSY 0 1 3
NOT CC 0 1 2 3
NOT ZERO -AND- 1
MIXED OR NONE 0 1

AVAILABLE

CSW STORED

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* F8041 2821 SCAN/2540 READER/PUNCH F8041 CONTROL PROGRAM -ROUTINE OVERLAY 02-

POST ASSEMBLY DATA.

REFERENCES TO DEFINED SYMBOLS.

1	1048	CAW	1990,	1908,	19F6,	1A28,	1A72		
1	1040	CSW							
1	0	GRO	1980,	1990,	1904,	1908,	19F2,	19F6,	1A24
			1A28,	1460,	1464,	146E,	1A72,	1D00,	1D2C
1.	1	GR1	1ACA,	1AD2,	1AF8,	1AFE,	1814,	1B1C,	1070
•	•	OKI	1082,		ICEE,	1038,	1050	10104	10.0
,	à	603		ICEA,					
1	2	GR2	1ACE,	1AF8,	1818,	1070,	1D38		
1	3	GR3	1004,	1DOC,	1D12,	1D12,	1D2C		
1	4	GR4	1D08,	1DOC,	1D16,	idic,	idic,	1D24,	1D28
			1D28						
1.	5	GR5							
1	6	GR6	1CFC,	1016					
ī	7	GR7	-0. 0,						
î.	8		1070	1D48					
		GR8	1970,			1456	1456		
1	9	GR9	1974,	1974,	1A56,	1A5C,	1A5C,	1A64	
1	Α.	GRA	19BA,	19E8,	1AlA,	1A4C,	1AC8		
. 1	В	GRB	199C,	1900,	19FE,	1A34,	148E	*	
1	C	GRC	1978,	1978,	1998,	1A30,	1476,	1A82	
1:	D	GRD							
1	E	GRE							
ī	F	GRF							
ī	4	LOW							
			1044	1463	1004	1050	1054	1046	1074
1	F000	REG	1966,	1AC2,	1BOA,	1850,	1B5A,	186C,	1876
			1898,	1BA2,	1BB4,	1BDA,	1BE4,	1BF6,	1000
		er e	1C1A,	1C24,	1036,	1C48,	1C5C,	1C6E,	1C8E
			1CAA,	1CB4,	1CCA,	1CD4,	1D36		
1	12E8	SIO	1990,	1900,	19FE,	1A34,	1A8E		
1	1000	BASE	1966,	1AC2,	1BOA,	1850,	1B5A,	1B6C.	1876
			1898,	1BA2,	1884,	1BDA,	1BE4,	18F6,	1000
			1C1A,	1024,	1C36,	1048,	1050,	1C6E,	1C8E
								ICOL,	ICOL
_	_		1CAA,	1CB4,	1CCA,	1CD4,	1036		
1	2	BUSY							
1	16EC	EXIT	1952,	104C					
1	48	HCAW							
1	40	HCSW							
1	2	HIGH							
1	78	HION							
20	1813	RDRD	IBCC,	1C4E,	1094,	1070			
20	180E	RDWR	1060						
1	1004	SNSW	195A,	1968,	1CDE,	1040			
i				1,004	ICULY	1040			
	1231	UAPU	1AAA						
1	122D	UARD	1488					•	
1	8	ZERD							
1	. 1	ALLON	1944,	19D8,	1406,	1A3C,	1496,	1A9E,	1 ADC
			1AE4,	1AEC,	1AF4,	1826,	1B40.	1848,	1864
			1880,	1890,	1BC8,	IBEE,	1COA,	1078,	1CA2
			1CC2,	1CE2		,		•	
1	5	ANYON	,						
i	8	AVAIL	-,						
1	11FA	CSWAG							
1	4	CSWST							
9	1841	DATAO							
9	1855	DATAL							
9	1869	DATA2							
9	187D	DAT A3							
9	1891	DAT A4							
ý	18A5	DAT A5							
9							•		
9	1889	DATA6							
ź	18CD	DAT A7							
9									
9 9	18E1	DAT A8							
9		DATA8							

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IBM MAINTENANCE DIAGNOSTIC PROGRAM	P/N 840258 IBM MAINTENANCE DIAGNOSTIC PROGRAM PAGE 18	P/N 840258 PAGE 18A
* F8041 2821 SCAN/2540 READER/PUNCH F8041 CONTROL PROGRAM —ROUTINE OVERLAY 02—	* F8041 2821 SCAN/2540 READER/PUNCH F8041 CONTROL PROGRAM -ROUTINE OVERLAY 02-	
9 1909 DATAB 1 8 EQUAL 193C, 1AFA, 1830, 18CO, 18D2, 1C54, 1C7E 1C9A	8 1D78 CRDCCW 1A6E 1 112C CSWSAV 19A8, 19DC, 1A0A, 1A40 4 1974 DATAOO 196C	richterentiere ein eine Ben
1 2 GZERO 4 1CEA LGOUT 1CE2 1 1202 MESS1 1AAA, 1AB8, 1AC2 1 4 MIXED	6 197A DATAIO 1A66, 1AC4 9 182D DATAII 9 1819 DATAI2 1974, 1ACA, 1B14 6 1984 DATA20	
1 7 NZERO 20 180A PCHRD 1B2A, 1BBA, 1D68 20 1805 PCHWR 1B2A, 1BBA, 1BCC, 1C4E, 1C94, 1D58 20 180C PRSNS 19E2, 1B44 20 180B PRSTA 19DC	4 19C4 DATA30 4 19F2 DATA40 4 1A24 DATA50 6 1A56 DATA60 9 191D DATAEX 1A60, 1ACE, 1B18	
20 1808 PWSNS 1984 20 1815 RRSNS 1A46 20 1814 RRSTA 1A40 1 1934 RTNO2 1015 20 1811 RWSNS 1A10	20 1805 DATAWK 197A, 1984, 1984, 198A, 198A, 1A56, 1AD2 181C, 1CEA, 1CEE, 1CF8, 1E59, 1E59, 1E59 1E59, 1E59, 1E59, 1E59, 1E59, 1E59, 1E59 1E59, 1E59, 1E59, 1E59, 1E59, 1E59	The state of the s
20 1810 RWSTA 1AOA 1 1000 SECST 1000, 1000, 1000, 1000, 1000, 1000, 1000 1000, 1000, 1000, 1000, 1000, 1000, 1000 1000, 1000, 1000, 1000, 1000, 1000, 1000 1000, 1000, 1000, 1000, 1018, 1CF8, 1CFA	4 1A6E DGCKRD 19BA, 19EB, 1A1A, 1A4C 7 1DA3 ERROO1 1BOA 7 1DAA ERROO2 7 1DB1 ERROO3	
1E59 1 11F7 SENSE 19B4, 19E2, 1A10, 1A46 1 10E0 UNIT1	7 1DB8 ERROO4 7 1DBF ERROO5 1B50 7 1DC6 ERROO6 1B5A 7 1DCD ERROO7 1B6C	
1 10E4 UNIT2 1 8 ALLOFF 1946, 195E, 196C, 1A7E, 1AA6, 1AB4, 1B38 1B88, 1C12, 1C2E, 1C40, 1C66, 1D44 1 F ALWAYS 1A6A, 1AA2, 1AC4, 1AC8, 1B02, 1B10, 1B52 1B5C, 1B6E, 1B78, 1B9A, 1BA4, 1BAC, 1BB6 1BDC, 1BE6, 1BF8, 1C02, 1C1C, 1C26, 1C38 1C4A, 1C5E, 1C70, 1C86, 1C90, 1CAC, 1CBA	7 1DD4 ERROO8 1B76 7 1DD8 ERROO9 1B98 7 1DE2 ERRO10 1B42 7 1DE9 ERRO11 1BDA 7 1DF0 ERRO12 1BF6 7 1DF7 ERRO13 1C00	
1CCC, 1CD6, 1CE6, 1D20, 1D4C, 1D54 4 1ACA ALZAOO 1A6A 6 1AD2 ALZA1O 1BO2 2 1B06 ALZA2O 1ADC, 1AE4, 1AEC, 1AF4 4 1B14 ALZBOO 1AFA 6 1B1C ALZB1O 1C86	7 1DFE ERRO14 1C1A 7 1E05 ERRO15 1C24 7 1E0C ERRO16 1C36 7 1E13 ERRO17 1C48 7 1E1A ERRO18 1C5C 7 1E21 ERRO19 1C6E 7 1E28 ERRO20 1C8E	
6 182A ALZCOO 2 1856 ALZC1O 1840, 1848 4 1860 ALZC2O 1838 2 1872 ALZC3O 1864 4 187C ALZC4O 1830 2 189E ALZC5O 1880	7 1E2F ERRO21 1CAA 7 1E36 ERRO22 1CB4 7 1E3D ERRO23 1CCA 7 1E44 ERRO24 1CD4 7 1E48 ERRO25 1BE4 7 1E52 ERRO26 1BB4	
4 1BA8 ALZC51 1BE6, 1C70, 1CD6 2 1BB0 ALZC60 1B90 6 1BAA ALZD00 1B26 2 1BE0 ALZD01 1BD2 4 1BEA ALZD10 1BC0 2 1BFC ALZD20 1BEE 4 1C06 ALZE00 1B88	1 16E6 EXITBY 4 1942 INITOO 193C, 19A4, 19D8, 1AO6, 1A3C, 1A96 4 194E INITOS 1946 4 1968 INITIO 195E 4 1CDE LGOUTO 1B1O, 1BAC, 1C7E, 1CBA 6 1CEE LGOUTI 1D54 6 1DOC LGOUTZ 1D2O, 1D2E	
2 1C20 ALZE10 1C0A 4 1C2A ALZE00 1BC8 4 1C3C ALZE10 1C2E 6 1C4E ALZG00 1C12 4 1C62 ALZG10 1C54 4 1C74 ALZG20 1C66	4 1D24 LGOUT3 1D18 4 1D50 LGOUT4 1D3A 4 1CDA LGOUTA 1B5C, 1B78, 1B9A, 1BA4, 1BB6, 1BF8, 1C02 1C1C, 1C26, 1C38, 1C4A, 1C90, 1CAC, 1CCC 4 1D40 LGOUTX 1CE6 4 1D4C LGOUTY 1D44	
2 1C8A ALZG30 1C78 4 1C90 ALZG40 6 1C94 ALZHOO 1C40 2 1CB0 ALZH10 1CA2 4 1CB6 ALZH11 1B52, 1B6E, 1BDC, 1C5E	1 C MIXNON 1 6 NEQUAL 1952, 1A66, 1D18, 1D2E, 1D3A 1 9 NMIXED 1 D NOTBSY 1 4 NOTZRO	The second secon
4 1CBE ALZH20 1C9A 2 1CD0 ALZH30 1CC2 4 1D80 ALZKA1 1AFE, 1C82, 1D50 52 17D0 ALZV01 1CFA, 1CFC, 1D00, 1D04, 1D08, 1D36 1 114C CAWKEY	20 180D PRCKRD 19EC, 1AEO, 1AFO, 1B34, 1B3C, 1B60, 1B7C 1B84, 1BC4, 1BEA 8 1D68 PRDCCW 19C4 1 1931 PROGSW 1942, 1956 20 1809 PWCKRD 19BE, 1ADB, 1B22, 1B8C	
1 1804 CKRDAR 19BE, 19EC, 1A1E, 1A50, 1A86, 1A9A, 1D78 DATE 15JUL65 17MAR66	8 1D58 PWRCCW 1980	
DATE 15JUL65 17MAR66 EC 124265 125643	ID F804-1 DATE 15JUL65. 17MAR66 PAGE 18 EC 124265 125643	ID F804-1 PAGE 18A



+ F8041 2821 SCAN/2540 READER/PUNCH F8041 CONTROL PROGRAM -ROUTINE OVERLAY 02-

20	1806	PWSTA1	1948						
20	1807	PWSTA2	19AE						
2	1AC8	RETNCR	1AA2,	1446					
20	1816	RRCKRD	1450,	1662,	1074,	1C9E,	1CBE		
8	1070	RRDCCW	1A24						
20	1812	RWCKRD	1A1E,	1AE8,	1006,	1COE,	1C2A,	1C3C	
-8		RWRCCW	19F2						
ī		SCHNUM	1938,	194A,	194E,	1BOC,	1BA8,	1CB6,	1CDA
ī		SCPDAT							
ī		SCPROO	1970,	1D48					
ī	114D	SIDSWS	1994,	1940,	1900,	1904,	19FA,	1402,	1416
•			1A2C.	1A38,	1A7A,	1A8A,	1A92,	1ABO	
1	1120	SIOVR3	-						
ī		SIOVR4							
ī		STATSV	19AE						
16		TITLE1	1966						
1		UNIADR	1A30,	1A82					
ī		UNZADR	1998,	1A76					
ī		XF8041							

NO ERROR DETECTED IN ABOVE ASSEMBLY

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F804 2821 SCAN/2540 READER/PUNCH F804 CHANNEL REG FLT -ROUTINE OVERLAY 1-

PERIO	DS C	ORRES	POND	TO BL	ANK COLUMNS.		
COLS.	1	THRO	OUGH 2	0	COLS. 21 THROUGH 40	COLS. 41 THROUGH 60	COLS. 61 THROUGH 80
	••••	. AA.	AAXF8	0	41OAAA.AEN	840	259.12564380410001
9		YQ 99			999 99		
					ΔΔΔΔΔΔΔΔΔΒΔΑΔΔΔΑGAQU	ΑΑΑΑΑΑΑΑΑΑΑΑΑΑΑΑ	AAAAAAAAAAA80410002
BIXI.	AAA.	• A8 • •	.AA8DA 99 99	A V	YYYYYYYYYYY9YY99YY8Y98	γγγγγγγγγγγγγγγγγ	AAAAAAAAA
		9		9	99999999 9 9999	99999999999999999	99999999999
					ΑΑΑΑΑΑΑΑΑΑΑΑΑΑΑΑΑΑ	ΑΑΔΑΑΑΑΑΑΑΑΑΑΑΑΑ	GAPMAAAAAAAA80410003
BTXT.	- BAA	• A8 • ·	44444 44464	×	YYYYYYYYYYYYYYYYY	ΥΥΥΥΥΥΥΥΥΥΥΥΥΥ	8Y98YYYYYYY
9	99	9	9 999		99999999999999999	99999999999999 99	99 99999999
					AAAAADAACANO		80410004
	AAO.	- AA-	. AAAAA . Y9YYY	A.	AAAAADAAGANO YYYY99YY8Y9&		
9	99-		9 999		9999 9999 -		
						ΑΑΑΑΑΑΑΑΑΑΑΑΑΑΑΑΑ	AA AAAAAAAAA80410005
	AAS.	. A8 .	- AAAAA	A A	BAAAAK4AAAAAAAAAAA OYYYYY99YYYYYYYYYYY	YYYYYYYYYYYYYYYY	YYYYYYYYYYY
9	Y Q 8	9	Y90Y\		9 999 99999999999	99999999999999999	99999999999
		•	•			ΑΑΑΑΑΑΑΑΑΑΑΑΑΑΑΑΑ	AAAAAAAAAI/80410006
	. AJQ.	. A8 .	- AAAA	AA	AAAAAAAAAAAAAAAAAAA YYYYYYYYYYYYYYYYYY	YYYYYYYYYYYYYYYY	ΥΥΥΥΥΥΥΥ
9	Y99	99 ·	9 999	7 Y 3 Q	999999999999999999	99999999999999999	999999999
	7.	,	, ,,,			OCT CCO DUT NO INTER	RUPTAAAAI/0.80410007
BTXT			- AAO -	AD	DR.XXX.CAW.XXXXXXXX	GOT.CCO.BUT.NO.INTER	YYYY
9	Y9	Y9	Y9 9				9999
	-	-			**************************************	T COL COLL STATUS YYY	X.SNS.XX80410008
	- AJH-	. A8 .	- AAAD	OR	.XXX.CAW.XXXXXXXXGO	T.CC1.CSW.STATUS.XXX	X43H34XX444400 12000
9	Y90	Y9	Y9 9				
	•	•	-			VY COT CC1 CEW VYYYY	XXXXXXXXXXXA80410009
			- AA- I	/0	_ADDR_XXX_CAW_XXXXXX	XX.GOT.CC1.CSW.XXXXX	Y
9	36A	.Y9	Y9 9				9
	9	9	9				RY.AGAINAAAA80410010
BTXT	. AJ8	. A8.	- AAAA	AA	AAAAAADIAG.CK.RD.UNI	T.000.NOT.OKT.WILL.T	YYYY
9	Y9	Υ9	Y9YY	ΥY	YYYYY	8	9999
	9	9	9 99	99	999999		
BTXT	_ AKA	- A8 -	AAAA	AA	ΑΑΑΑΑΑΑΑΑΑΑΑΑΑΑΑΑΑ	ΑΑΑΑΑΑΑΑΑΑΑΑΑΑΑΑ	AAAAAAAAAAA80410011 YYYYYYYYYYYY
9	Y9Q	γ9	Y9YY	ΥY	YYYYYYYYYYYYYYYYY	99999999999999999999999999999999999999	99999999999
	9 Z	9	9 99	99	99999999999999999	99999999999	
RTYT		A8.	AAAA	ΔΔ	ΑΑΑΑΑΑΑΑΑΑΑΑΑΑΑΑΑ	ΑΑΑΑΑΑΑΑΑΑΑΑΑΑΑΑΑ	AAAAAAAAAAAA80410012
9	Y9Z	Y9	Y9YY	YY	ΥΥΥΥΥΥΥΥΥΥΥΥΥΥΥΥΥΥ	<i>YYYYYYYYYYYYYYYYYYY</i>	YYYYYYYYYY 999999999999
-	9	9	9 99		99999999999999999	999999999999999999	7777777777
DTV7		A 0	AAAA	۸۸	ΑΑΑΑΑΑΑΑΑΑΑΑΑΑΑ	ΑΑΑΑΑΑΑΑΑΑΑΑΑΑΑΑ	AAAAAAAAAA80410013
9			79YY		YYYYYYYYYYYYYYYY	ΑΛΛΑΛΑΛΑΛΑΛΑΛΑΛΑΛΑ	YYYYYYYYYY
,	9	9	9 99		999999999999999999	999999999999999999	99999999999
0.77.7					AAAAAAAAAAAKB1A2VAB	1EGA2DKB1A21KB0578AJ	1DKC1Y0HPG1U80410014
BIXI	Y9	AB	4444. 4999	YY	YYYYYYYYYY 9 Y 8-9	8ZQ Q 9 Y 9 9 8 9Q8	999298
7	9	9	9 99		99999999999 9	9 Z 9	. 9
				10.4	1717DO7AKAOH1DKCOHOH	DAOAEA3A&A14AA1EGA5F	AA14G&3&BQAA80410015
BTXI	- ALA	8A • •	AA1i Y9 8	IPA L V	REQYZ89-ZZ	QYEYZQ Q Q 9-Y 8ZQ Q	-Q 9Z -8 -Y
7	9 9	9	9 9	9	0 9	99929 99	z 9
					2505404464016140614	BO.21FGO3FAA14G.3FAA	ODGA3DBEADAH80410016
	T. ALH	8A • •	- AAO	JGA DZO	3FBEADAHAPKB1G1AB01W Q8QY9YZ98 9 R Y- 8	8- 9 8Z Q-Q 9ZY	9ZQ 88QY9YZ
9	9 Y 9 Z	. Y9 9	Υ9 ⁹	92Q 9	0999 9	9 0 Z	9 9999 9
	y	9	7	,7	3,,,,		

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F804	2821 SCAN/	2540	READER/PU	NCH	
F804	CHANNEL REG	FLT	-ROUTINE	OVERLAY	1-

	Y9Y		• AAAPKB Y998 9 9	1G1AB31W80./1FG03DAA R Y- 88- 9 8Z 8-Q 9 9 9 9	14GA3OAAODGA3FBEADAH 9ZQ Y-Y 9ZQ Q8QY9YZ 9 9 9 0999 9	APKB1G1AB21W80410017 98 9 R Y- 8	
тхт	• ALH• • Y90 9 —	• A8 • • Y9 9	• AABO•/ Y98- 9 9 9	1FEA0AGA3DG&3FQUAB1E 8QY&YZY 8Z	GA3DHOOSGO3SHOOWEAOA ZQ QZ& Z 8Z& QY&Y 9 9 9 9 9	G03SQBG03DAA80410018 Z& 89 Z 8-Y - 9	
STXT	Υ9	Υ9	• AAO DGA	3FAA1CGA4KBA1CAGOEG& Q-Y OZY 8-Y O-Q-ZZ O 9 9 Z	4KALODGÊÅKAMODGA3DKB 8-Y-ZZ 8-9-ZZQ 8 9 9 9 9 9 9	1E1ABEADAHAE80410019 Y Y8QY9YZ9- 999 9	
ST XT			• AAKG1U Y9 9 8 9 9	0.BEABAAAAB11MAB1AGA - 8QY99Q90- 0-9 QZQ 999 Z - Z 9	4DBO+11DAG11G&3FGO3D R8- 9 O-Q 9Z QZ 8 9 Z O 9	EA4DBEAAA7AB80410020 ZQ -8QY99 9Q Z 999 0	
BTXT			• AAA • 17 'Y9- 9	GA4BB0.81DG04HBA1CB0 ZQ R8- 9 0Z Z-Y 08- 9 09 9	-81DB0AT73H&JH0EF&4H 9 08-Y9 8R Z-8RZ 0 9 9 9	FA1EG03DKB1B80410021 -9 8Z 8 9 Y 9 9	
STXT	¥9-		• AA1AA• Y9 YZ 9	7Y&.OHKAOH1DBEADAHAK 9 Z Y Z 88QY9YZ9 9 999 9	KCOHOHDAOAE.4FAAODGA 9-Z ZQYEYZ Q-Y 9ZQ 9 9 0 9	5M&.18B01JAA80410022 Z 9- Z-Q Z	
BTXT	Y9-	• A8 • Y9 9	•AA18GA Y9 9ZY 9	50B31JGA5DB21JAJ18GA 9- ZZQ 8- Z-Y 9ZQ 9 9 9 9	5DB11JKF1X70KG140.BE 8- Z 9 8 9 8- 8Q 9 9 99	ABA.AOBO.11A80410023 Y99 9Y8- 9 9 99	
BTXT	Y99	• A8 • Y9 9	• AAGO5M Y9Z Z 9	BO./1AGO5MPG1414EAOA 8- 9 Z Z 9 8 8QY&Y 9 9 9 9 9	G.5UG05MG0520G140.AG Z 8ZE 8Z 9 9 8Q 9 - 9 9 Z	1AG&5BAD1.G080410024 ZZ 8-8 Z& 9	
BTXT	• AN• • Y9 9	•A8 • Y9 9	• AA5BA3 Y9 8- 9	1.GA5MBEAHA4AXBO.61A ZY 88QY9989 8- 9 999 9 9	G05MKC0H1YG3EA0AG05M Z Z 9 Z 99 QY&YZ& Z 9 9 -	G04AAA0DGA3F80410025 Z Q-Y 9ZQ Q 0 9 0	
BTXT	Y9R	Y9	• AAKG1U Y9 9 8 9 9	0-AJ1EGA5FPA1818EA0A Y 8ZQ Q 9 QYEY 9 9 9 9 9 9	G.5DG05DG050DA180DG0 Z QZ& YZ 0 9 -ZZ	5DKG1B1UOA1F80410026 Y 9 Q 8 9 Q Z 9 Z	
BTXT			• AA18AB Y9 -9 9	1FGA5FEA4DAV17G&5UAG QZY ZQ Z -Q Z Z Z Z	1GG&5UAS1FG&5UAD1FGO QZ	5UHJ1DGCKB1E80410027 -8 99Q 9 Y 9 Z	
STXT		Υ9	•AA1ABE Y9 Y8Q 9 99	ADAHAEBEAHABAKBO1MAB Y9YZ9-8QY99Q9Y- 0-9 9 9 999 Z	1FGA6DBO.61DKF1B7/BE QZQ 88- 9 0 9 Q 88Q Z 9 99 0 99	AAA7AGA.17GA80410028 Y99 9Q- ZQ 9 0 9	
TXT	• AOJ • . 79 Y 9 9	• AM • • Y8 99	• AA6UBO Y9 88- 9 99	•51DG03DB0-51DB0AT73 8 0Z 88- 8 08-Y9 8 9 99 9 9	G048Z	80410029	
STXT	• AO6 • 198 9 9	Υ9	- AAADOO Y9QQ 9	BOAS 70H07AE07AGA 6QA - 8-Y8 &R& QR& QZY Z- 9 9 - Z Z	ODGA6DHDOOKCOH1YG8A. 9ZQ R-Q 9 Z 99 - 9 O	ODGA6DG06M&J80410030 9ZQ 8Z 8 Y 9	
BTXT	• AOF • . Y9R 9 0	• A8 • · Y9 9	• AA1 AK A Y9 Y Y 9 9 9	0Y1BBAOMMAOM1C&01AKA 9-Q Y Y Y 9 & Y 9 Z 9 9 9 9	001ANA1A7BG06KKA007B Y Y 9 Y QZ- 0 9 Y Q 9 9 9 9	&A1AKC241AKP80410031 Q Y 9 9 Y Y O 9 9	
STXT	Y9Y	• A8 • . Y9 9	• AA2824 Y9 9 9 9	AAOYEAOHKAOH1DKCOHOH ZQ QZYZ89-ZZ 9	DAOAEAOAGO6BAAODGA60 QYEYQYEYZE Y-Y 9ZQ & 9 9 9 9 - 9 9	A.ODGA6BG06M80410032 - 9ZQ ZZ 8 9	
TXT	• AOW • . Y9 9	• A8 • . Y9 9	• AABOAA	7EA.ODGA68EA66AJJLGA Q- 9ZY ZY 8-YZOZQ 9 9 9	7MAA7J&AOHHOOSBB1EEA 8ZY Y Y ZZ& -9 8ZQ 9 9 9 9 0	2YBCB4G07MB080410033 8Q99Z 98 99 9	

F804 2821 SCAN/2540 F804 CHANNEL REG FLT	READER/PUNCH -ROUTINE OVERLAY 1-		
BTXT.APOA8AAAAFA 9	K4JAACDAJ7AAAAGGGGAA 99YYY99Y9 YYY9QQQQYY 999 9 999 ZZZZ99	AMANOMAKE.THIS.UNIT. Y9Y9& 9 9 —	RDY-WITH-BLA80410034
BTXT-APFA8AANK-C 9	ARDSSTATUS.XXXX.SNS.	XXPRESS.CONSOLE.STOP	•F•ENTER•SC080410035 8
BTXT-APFAWAAPE-L 9	DOP • DATAADAROUTINE • B YOY 9-9	YPASSEDAGAAAGG Y9YYY9Q 9 999 Z	80410036
BTXT.APOA8AAAAAA 9	AAAAAAAAAAAAAAAAAA YYYYYYYYYYYYYYYY 99999999	AAAAAAAAAAAAAAA YY YYYYYYYYYYYYYYYYYYYY	AAAAAAAAAAAA80410037 YYQYYYYYYYY 999999999999
BTXT.AQHA8AAHAAA 9	AAAAAADAAAAAAAAAAAAA Yyyyyyyyyyyyyyyyyy 99999 99999999 999	AAAAAAAAAAAAAAAA YYYYYYYYYYYYYYYYY 99999 9999999999	AAAAAAAAAAAA80410038 YYYYYYYYYYY 999999999999
BTXT.AQA8AAAAAA 9	AAAAAAAAAAAAAAAAAA YYYYYYYYYYYYYYYYY 99999999	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	AAGFLEA.JFGA80410039 9YQQ8Q- Z-ZY 9ZZ99
BTXT.AQHA8AA84QG 9	ABODGA8BBOAPEMLAAAJA -9 92Y Y8-Y8Q88Y-QZY 9 92999 9	GA8BAGBA1DBEABASBUBE ZY Q88ZY 88QY9Y 988Q 99 9 999 9 999	ABAWBABA7DA.80410040 Y9Y 9Q-Y Q- 9 9 Z 9
BTXT.AQAA8AA0DGA 9	8BEA66LDHOOWAAEA&AOH QZY 88YZ& ZYQQ Y Z O 999 9Z9 9	BA1EEA2YEM13G-DBAAEA -Y 8ZQ -9 9Z Q-ZYQQ 9 0 Z 9Z9	&AOHHOOSBB1E80410041 Y ZZ& -9 8 9
BTXT.AQYA8AAEA2Y 9	EM13G-DBHOOWAA7SKA8D -9 9Z Q-Z& ZQ 8 8 Z Z 9	AAAAD8PH8E8EKA8E8D&A QYZYQ 9 Z Z Y Z Z Y 9 9Z 9 9	OHBA1EEA2YAA80410042 Z-Y 8ZQ -9 9 0
BTXT-AJJA8AA1EGA 9 Y8Y Y9 Y9 8ZQ 999 9 9 9	80KA8E1AKA8F18KA8G17 & Y Z Q Y Z Y Z - 9 Z 9 9	EJ9HKA8H7OAAEA&AOHBA ZY 0 Y Z -ZYQY Y Z-Y 9 9Z9 9 9	1EEA2YAA1EGA80410043 8ZQ -9 8ZQ 0 9
BTXT-AJHA8AA80KA 9 Y8R Y9 Y9 & Y 99 9 9 - 9	8B1AKA8C17EJ9HKA8D7O 8 Q Y 8 ZY O Y 8 - Z 9 9	KAAABDAIABAABDNAG-8D 8QY ZZ-Y8ZY Z9QZ Q 9 9 99 Z	G09KAAEH&A0H80410044 Z YZYQ9 Y Z 9 9Z 9
BTXT-AJAA8AAAB1E 9 Y8Q Y9 Y9-9 8 99 9 9	HOOWGA9JHOOSKB70EDDE Z& ZY YZ& 9 -QR-Q Z Z	1EEA2YAA1EGA80AG7KGA 8ZQ -9 8ZQ &-Q ZQ 0 9 - Z 9	9BG09YAG7JGA80410045 Z -Q ZQ Z 9
BTXT.AJHA8AA9YKB 9 Y8 Y9 Y9 9 99 9 9	2K21AB1EGA9FKB2K2VB0 9 9-9 8ZY Q 9 9 88- 9 99	DT2BG08DGBAATSBATGAA Z8 9Z Q9QZQ 8-Y QZY 9 Z Z 9 9 9	81AA7ZBAAAAJ80410046 8ZQ -YQYZ9 9 9 999
BTXT.AKAA8AAABNA 9 Y8Y Y9 Y9Y89Q 999 9 999	G-9BBA8FKA8DAAGOB2AB Z Q-Y 8 8 ZQYZ Q8-9 Z 9 9 9 Z9	8HGABOAB8DGABOKA7F8D ZZQQY-9 8ZQQY Y Q Z 9Z9 9Z9 9 9	MA7F8AGABBG080410047 Y Q 8ZYQOZ 9 9 Z-
BTXT.AK8A8AACFAG 9	8FGABOBG8FAAAAAOAAAA 8ZQQ9-Q 8ZYY9Z&YYZQ 9Z Z 9 -9 9	8WAJ8WFAAADABFGABBDA 9ZY 9-9Q8ZYQQZYQRZY 9 99 Z ZO	BKGABBDABDGA80410048 QYZYQRZYQYZQ Z ZO Z 9
BTXT.AKOA8AABHDF 9	AANGGABDAHAALAEQGOBB Q890ZYQ9ZOYY8QQ9Z QR 99 Z 99Z Z	AO7SNBAOAAGABKLJEQGO Z& 89RZ&YYZYQOBYQ9Z - O -9 Z 9Z	BFAAJEFA7GG080410049 QR-YY9-9 QZ Z 99 9
			051000010111000110050

BFAHABFOBBGOC&AD8HGA

QYZOY8Z&QQZ Q -9 ZZQ Z9 99 -Z0 Z 9

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Y80 Y9 Y9QR-Y 99 9 9 Z0 9

BTXT.AKQ..A8..AABFAA

JDAAJHAOAHAA7VEAAAG-

Y9-YY9Z&Y9ZY -YYYZ

9 99 -9

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CFAD8PGABWAD80410050

Q8-9 9ZQQ -9 Z9 9Z



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BTXT.AKS..A8..AA8DGA CFFB8EGOCBAB8DGABFAB 8AGACFAA8VGACFGOCBFA 7GKAAA8EAIAB80410051 8ZYQ8-9 9ZYQ8Z Q8-9 Y88 Y9 Y9 ZZY Q8-9 8Z Q8-9 ZZQQQ-9 Z 9 Z9 Z9 Z9 999 NAG-BDGOCWAA7GGAC2GO DJAA81BG7DAA7ZABAAGA CKAJABNAG-C680410052 BTXT.ALQ..A8..AAAA8A Y89 Y9 Y9ZY Q 99 9 9 9 Z 9QZ Q8Z Q9-9 QZQQ9Z QYZY 8-Q QZQ -9QYZY Q8Z9Y89QZ Q8 Z 99 9 Z9 Z9 Z 9 9Z Z 9 9 Z 9 99 BTXT.AL&..A8..AABODG EGGODJAA7ZAAAAGACDAJ ABNAG-COGOCDAG85GOCF AA85GACFB0DG80410053 Y8 Y9 Y98-Z9 Y89QZ Q8Z Q0-Q 9Z&QY 99 9 Z Z Z Z -Q 8ZQQY8-Z9 QRZ QYZQ -9QYZYQRZ9 Z Z 9 99 Z0 9 9 9Z 9 BTXT.ALH..A8..AAEOGO DJAB7ZGACJBODGENGOCO AA7ZGACOBODGEUAB73GA C0B0DGECG0CF80410054 Y80 Y9 Y9Q8Z 99 9 9 Z QY-9 ZYQY8-Z9QZZ QY -9 ZYQY8-Z9Q8-9 ZY Q&8-Z9QRZ QY Z 9 Z Z Z 9 Z Z 9 Z0 Z9 DGEAGOCOAA7EGACOBODG EHAB8GGADAB080410055 BTXT.ALO..A8..AAAA73 GACFBODGE2AB7EGACSB0 Z9QOZ QY-9 QZYQY8-Z9 Q0-9 9ZYQY8-Y8& Y9 Y9-9 ZYQY8-Z9Q8-9 QZYQ88-Z Z9 Z Z99 Z99 GODFAA8GGADFBODGEFAB 8JGADJBODGEEGODWAA8J GADWBODGEMAB80410056 BTXT.AL8..A8..AADGEG 9ZYQY8-Z9QQZ Q8-9 9 Z99 Z Z9 Y8 Y9 Y9Z9QY 99 9 9 Z Z Q8-9 9ZYQ88-Z9Q--9 ZYQ88-Z9Q0-9 Z99 Z BODGEBAB8VGAD-BODGEI GODWAA8VGADW80410057 BTXT.AMA..A8..AA8LGA D.BODGELGODFAA8LGADF 8-Z9Q0-9 9ZYQ 8-Z9Q0 9 Z- Z 9 Z-Y8Q Y9 Y9 8ZY 99Z 9 9 9 Q 8-Z9QYZ Q8-9 8ZYQ8 Z 9 Z Z 9 Z Z Q8-9 9ZYQ8 BTXT.AMQ..A8..AABODG EOAB8XGADABODGEGGODF AA8XGADFBODGEFGODJBO DJE38C7DG06M80410058 Y8Z Y9 Y98-Z9 QE-9 8ZYQY8-Z9Q Z QY -9 8ZYQY8-Z9QYZ QY8-Z8Q8-0 QZ Y 9 Z 9 Z Z 9 2 9 29 29 9Z9 BTXT-AMJ--A8--AAAJOD GA6MAA8DAA7SKA8DAABE ABHDHHAJ8&AA8HA.8GKA .AAAB..BADAC80410059 ZY YZY ZZQ 8 8 ZQY8Q 9 9 9 9 9999 Y89Z9RZY -ZQ RZ 8 9 Y8Y Y9 Y9-Y 9 YQY- 9ZZY9 9Z9 JAAAFAPOJAAC80410060 BTXT.AMQ..A8..AAA3AB N2G-DBBOAN8GAJABNAG-DARRGO6MAAODJAARRAQA QQ8QZ Y9Y9ZYYY9 Y98 99Z QY8-Y8 8Z9Y89QZ Y8 Y9 Y9Z9Y9 99 9 9 9 YYY9 Y9-YYY9 Z099 9 9 999 9 999 9 999 Z99 9 99 9 BTXT.ANA..A8..AAFAK4 JAAMAAAB2821.SCAN/25 40T.CHANNEL.REG.FLTB UFFER-ADDRES80410061 Y8Q Y9 Y9 Y99 999 9 9 9 YYYZYYY8 999 9999 BTXT.ANH..A8..AASING .PROBLEMAAGERR.030ER R.031ERR.032ERR.033E RR.034ERR.0380410062 Y8Z Y9 Y9 R.039ERR.040ERR.041E BTXT.ANA..A8..AA5ERR .036ERR.037ERR.038ER RR-042FRR-0480410063 Y8Y Y9 Y9 99 9 9 BTXT.ANH..AN..AA3ERR .044ERR.045ERR.046ER80410064 R.047.... Y80 Y8 Y9 99-- 99 9 AAP/AAP8AAM9AANAAANA BRLD....AA...AAAA AAANAAANAAA5AAAZAAP/ HANJ.....80410065 YQ Y9Y9 9Z 9 9 87987928798879 8799 87988799878 87898788 999 999 999 99 99 999 999 9999 BEND.8041006680410067 BDAT....80410068

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BDAT9	•••••	•••••	80410069
BESDAAAAXF80 9 YQ Y9 99 9	410AAA.AFJ YQY Y88 999 99	•••••	80410070
BTXT.AANACAAAJ4. 9		•••••	80410071
BTXT.APOA8AAAAAA 9	AAAAAAAAAAAAAAAAAA YYYYYYYYYYYYYYYYY 99999999	AAAAAAAAAAAAAAAAAAA Yyyyyyyyyyyyyyyy 9999999999	AAAAAAAAAAAAA80410072 YYYYYYYYYYY 999999999999
BTXT.AQHA8AAAAA 9	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	AAAAAA-AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAA80410073 YYQYYYYYYYY 999999999999
BTXT-AQA8AAAOAA 9	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	AAAAAADAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	AAAAAABAAAAA80410074 YYYYY9YYYYY 999999 99999
BTXT.AQHA8AAAAAA 9	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	AAAAAAALAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	A5AAAAAAAAAA80410075 Y YYYYYYYYQ 9 9999999999
BTXT.AQAA8AAAAAA 9	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	AAAAATAAAAAAAAADAAAA YYYYY YYYYYYYYYYYY 99999 99999999 9999	AAAAABAAAAAA80410076 YYYYY YYYYYY 99999 999999
BTXT.AQYA8AAAAAB 9	AAAAAAAAAAAAAAAA	**************************************	AAAAAAAAA AA80410077 YYYYYYYYYYYY 99999999 99
BTXT-AJJA8AAAAAA 9	AADAAAAAAAAAGABAGF YY99YYYYYYYYYYYYQQ 99 999999999 9 9ZZ	EA7DGA9BBOA.91GA9FBA -Y QZY Z8 - 9ZY 8-Y 9 9 9	7DEA7DG-6MF.80410078 Q-Y QZ Y- 9 9
BTXT-AJHA8AA91AB 9 Y8R Y9 Y9 9-9 99 9 9	ODGA9QBOAPEDA.ODGA9D 9ZY Z8-Y8QO- 9ZY R 9 9Z O	EA66AA8JLDKL8EAAAAEH ZY 8ZQ 88Y 9 9QYZYQR 9 999 9 9Z	PG8F8FPF8A8A80410079 9 9 9 9 Q Q 9 9
8TXT-AJAA8AA&AOH 9	BA1EHOOWEA2YAA1EGA9B -Y 8Z& ZQ -9 8ZQ Z 9 0 9	KA8F1AKA8G18KA8H17EJ Y 9 Q Y 9 Y 9 ZY 9 Z 9 9	BWKA8A8DAAEQ80410080 Q8 Y 8 9ZYQZ Z 9 9 9Z
BTXT-AJHA8AA&AOH 9	BA1EEA2YAA1EGA9BKA8C -Y 8ZQ -9 8ZQ Z Y 8 9 0 9 9 9	1AKA8D17EJBWKA8E8DAA Q Y 8 ZYQ8 Y 8 9ZY Z 9 9 Z 9 9	E-&AOHBA1EEA80410081 Q Y Z-Y 8ZQ Z 9 9 0
BTXT.AKAA8AA2YAA 9 Y8Y Y9 Y9 -9 999 9 9	1EGA9BKA8A1AKA8J17FB 8ZQ Z Y Q Q Y 9 -9 9 9 9 Z 9	1EEJBWKA8K8DAAEO&AOH 8ZYQ8 Y 9 9ZYQ& Y Z Z 9 9Z-9	BB1EH00SEA2Y80410082 -9 8Z& ZQ 0
BTXT-AK8A8AAAA1E 9	GA9BKA8M1AKA8N17EJBW ZQ Z Y 9 Q Y 9 ZYQ8 9 9 Z 9 Z	KA808DKLAA8EAIAMAA91 Y 9 9 9QY 9Z-Y9ZY 9 9 9 9 9	NAG-92GOBBAA80410083 9QZ 8Z QYZY Z9 9
BTXT-AKOA8AAEH&A 9	OHHOOWAB1EGABFHOOSBO ZZ& -9 8ZYQOZ& -& Z	8DDE1EEA2YAA1EGA9BAO 9-Q 8ZQ -9 8ZQ Z-& Z O 9	8DGABKGOBHGA80410084 9ZQQYZ Q ZY 9Z Z
BTXT.AKQA8AABHKB 9	2K21AB1EGABFKB2K2VB0 9 9-9 8ZYQQ 9 9 88- ZO 99	S2BG092GBAA8JAJ9NKL 8 9Z 89QZQ 8ZY 8 9 9 Z 9 9 9	8EAAAA8AGACF80410085 9QY-9 8ZQQ9 99 9 9Z

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FOOT CHANNEL REG FET	-ROUTINE DVEREAT I				root onamee neo re	NOOTINE OVERERY 1		
BTXT-AKSA8AAAA8E 9	GACFAA8KGACFAA8EGACF ZQQ9-9 9ZQQ9-9 8ZQQ9 9Z 9Z 9 9Z	NKGACMOAEAGOBKBODGEL 99ZYQ98QQYZ Q 8-Z9QO Z 9Z Z 9 Z	BC7DG0DFAA8J80410086 -0 QZ QQZQ 8 Z9 9 9		BEND9	•••••	•••••	80410103
BTXT-ALQA8AAAJ9N 9	KL8EAAAB8AGACBNA8E8B 9 9QY-9 8ZQQQ Y 9 8 99 9 9ZO 9 9	GAC4AB8EGAC-AD8EGACF ZYQ8-9 8ZYQ -9 8ZQQR Z 9 Z 9 9Z	AHBDGACFB0DG80410087 -9 8ZQQR8-Z9 9 9Z 9		BDAT9	••••••	•••••	80410104
BTXT.AL&A8AAEGGO 9 Y8 Y9 Y9QQZ 99 9 9 ZO	DFBODGEFGODBAD8EGACB Q08-Z9Q Z QQ-9 8ZQQR Z-9 Z Z9 9 9ZO	BODGEEGODFBODGEMGODB 8-Z9QYZ QO8-Z9Q Z QQ 9 Z9 Z-9 Z Z9	AB8EGACFAD8E80410088 -9 8ZQQQ-9 8 9 9Z 9		BDAT9	•••••	•	80410106
BTXT-ALHA8AAGADF 9	AD8AGACABODGECGODBBO -9 8ZQQQ8-Z9QQZ QQ8- 9 9Z09 Z9 Z99	DGESGODBBE7DGODFBODG Z9Q Z QQ-O QZ QQ8-Z9 Z Z9 Z99	FBGODBNA8E8B80410089 QRZ QQ Y 9 8 Z Z9 9 9					
BTXT-ALOA8AAGACK 9 Y8& Y9 Y9ZYQY 99 9 7 Z9	AB8EGADSNA8E8LGACSB0 -9 8ZQQ8 Y 9 9ZYQ88- 9 9Z9 9 Z 9	DGEZGODFBODGFCGOCQAB Z9Q Z Q08-Z9Q8Z Q0-9 Z Z-9 Z Z	8EGACDBODGE080410090 8ZQQQ8-Z9Q 9 9ZZ9 Z					
BTXT-AL8A8AAGODB 9	BODGE7GODBAB8KGADJAD 8-Z9Q Z QQ-9 9ZQQY-9 9 Z Z9 9Z9	8KGADFBODGEFGODBBODG 9ZYQ88-Z9QQZ QQ8-Z9 Z 9 ZZ Z99	FEGODBABBKGA80410091 Q9Z QQ-9 9ZY Z Z9					
BTXT-AMAA8AAD4B0 9 Y8Q Y9 Y9Q88- 99Z 9 9 Z99	DGFDGODBAD8KGADDBODG Z9Q8Z QQ-9 9ZYQ-8-Z9 Z9 Z9 Z 9	FLGODBNA8E8LGADKBODG Q9Z QQ Y 9 9ZYQZ8-Z9 Z Z9 9 Z 9	FKG0DFAB80GA80410092 Q8Z Q0-9 9ZY Z9 Z-	***************************************				
BTXT-AMQA8AADDB0 9 Y8Z Y9 Y9QR8- 99 9 209	DGF/GOCQADBDGADBNKGA Z9Q9Z QO-9 9ZQQY99ZY Z Z 9Z	DFOAEAGOCMBODGFYGODB QQ8QQYZ Q88-Z9Q9Z QQ Z9 9Z Z99 Z Z9	NA8E8LGADFAB80410093 Y 9 9ZYQQ-9 9 Z0					
BTXT.AMJA8AA80GA 9 Y8Y Y9 Y9 9ZQ 99 9 9 9	DABODGFXGODBBODGF6BD QQ8-Z9Q8Z QQ8-Z9Q9-0 Z09 Z9 Z99 Z	7DGODFAB80GAD080DGF5 QZ QQ-9 9ZQQ-8-Z9Q8 Z9 9Z 9 Z9	GODBBODGFDG080410094 Z QQ8-Z9QZZ Z99 Z	**************************************				
BTXT-AMQA8AACQBG 9 Y8 Y9 Y9Q0-Q 99 9 9 Z Z	7DAJODGADKGOE.AA8EKL Q-Y 9ZQQYZ Q ZQ 9 9 9 9Z9 Z 9	8EAABEAKHEGSA-7LAA8B 9QY8QY99998Z YZY 9 99999 9 9	AA7SA.70KA.A80410095 ZQ 8Z - 9 Y Z 9					
BTXT-ANAA8AAAAA3 9 YBQ Y9 Y9QYZ9 999 9 29	ABNFG-EUADABGOEDBB Y99ZZ Q9ZZY9Z Q8- 9 9 Z 9 Z9	ADACNAG-EDBOA470NKG- ZZY99QZ Q88-Y9 -99Z 9 Z Z99	E&BBA.0DGAED80410096 Q 8Q- 9ZYQ8 Z 99 Z					
BTXT.ANHA8AAEA66 9 Y8Z Y9 Y9ZY 8 99 9 9 9	GO6MDAEAGODDAAQEJAAA Z Y8QQYZ QY9Y99YYY9 9 9Z Z9 9 999	VAQFJAABBAQBAQAQL 9Y98YYY9 Y98YYY9 Y99 9 9999 9 9999 9	JAAAFAQDJAAA80410097 YYY9 Y99YYY9 999 9 999	A THE PARTY OF THE				
BTXT-ANAA8AAAAAM 9 Y8Y Y9 Y9YYY9 99 9 999	2821.SCAN/2540T.CONT 8	ROL-PROGRAMERR-001ER	R.002ERR.00380410098	MARINA ALIPYTON, MARIANTAN, 1				
BTXT-ANHA8AAERR. 9	004ERR.005ERR.006ERR	.007ERR.008ERR.009ER	R-010ERR-01180410099	V. T. T. C. T. STEEL TO L. T. C. L. T. C. C. C. C. C. C. C. C. C. C. C. C. C.				
BTXT.ANOA8AAERR. 9 Y8 Y9 Y9 99 9 9	012ERR.013ERR.014ERR	.015ERR.016ERR.017ER	R.018ERR.01980410100	ACC ACTION OF THE PROPERTY OF				
BTXT-AOYAlAAERR. 9 Y89 Y9 Y9 99 9 9	020ERR.021ERR.022ERR	-023ERR-024ERR-025ER	R.02680410101	WENDHALDRINGS				
BRLDAMAAAAA 9	AAAANAANJAAN/AANAAA 8798988 87888788 999 999 999 999	HAN19Y88	80410102	Nikamprovidskiskiskis udiserros.				
DATE 15JUL65 17MAR	66		ID F804	-1	DATE 15JUL65 17M/	L 4R66	AST PAGE	ID F804-1
EC 124265 12564			PAGE 2		EC 124265 1256			PAGE 22A



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IBM MAINTENANCE DIAGNOSTIC PROGRAM P/N 840260 PAGE 1	IBM MAINTENANCE DIAGNOSTIC PROGRAM P/N 840260 PAGE 1A
* F8041 2821 SCAN/2540 READER/PUNCH F8051 BUFFER ADDR FLT -ROUTINE OVERLAY 03-	* F8041 2821 SCAN/2540 READER/PUNCH F8051 BUFFER ADDR FLT -ROUTINE OVERLAY 03-

	0017E0 00000000 RESCNT DC XL4*00* WORK FIELD
8051 TITLE F8051 BUFFER ADDR FLT -ROUTINE OVERLAY 03-	 VARIABLES FOR ROUTINE 03 - NO BOUNDARY
***************************************	***************************************
* MODIFICATIONS *	0017E4 000000000000000000 DRDR DC XL100*0* READER DIAGNOSTIC CK READ DATA
■ 1. BUFFER ADDR FLT —ROUTINE OVERLAY 03— ■	0017ED 000000000000000000000000000000000000
* THIS ROUTINE WAS NOT MODIFIED. *	0017FF 000000000000000000
* 2. READER TRANSLATOR FLT -ROUTINE OVERLAY 04- * * THIS IS A NEW ADDITION TO THIS PROGRAM PACKAGE. *	001808 000000000000000000
*	001811
* ENGINEERING CHANGE PREREQUISITES *	00181A 000000000000000000000 001823 00000000000000000
* 1. HARDWARE * * 2821 CONTROL UNIT WITH 2540 ATTACHMENT AT MINIMUM *	00182C 000000000000000000
* 2021 CONTROL ONLY WITH 2240 ATTACHBENT AT WINTERS	001835 00000000000000000
* 2. PROGRAM *	00183E 000000000000000000000000000000000000
* NONE	001848 0000000000000 RCSWAG DC XL8*0* READER CSW
* *************************************	001850
XF8051 START 4096	001859 0000000000000000
001000 USING #,15	001862 000000000000000000000000000000000000
************************************	001874 000000000000000000000000000000000000
* SECOND OVERLAY - ROUTINE 03 * **********************************	00187D 00000000000000000
* RESIDENT LABELS ADDRESSED BY OVERLAYS *	001886 000000000000000000000000000000000
***************************************	001898 000000000000000000000000000000000
001000	0018A1 00000000000000000
001004 SNSW EQU SECST&4 001040 CSW EQU SECST&64	0018AA 000000000000000000000000000000000
001048 CAW EQU SECSTE72	0018B3 00 0018B4 0000000000000 PCSWAG DC XL8*0* PUNCH CSW
0010E0 UNIT1 EQU SECST6224	OO18BC OO SWITCH DC X'OO'
0010E2 UNIADR EQU SECST&226 0010E4 UNIT2 EQU SECST&228	0018BD C5D9D940F0F5F140 ERRX DC C'ERR 051 '
0010E6 UN2ADR EQU SECST8230	0018C5 C4C5E5C9C3C54OFOFO LGMSG DC C'DEVICE 000 DIAG '
00112C SIDVR3 EQU SECSTE300	0018CE F040C4C9C1C740 0018D5 C3D240D9C440C4C1E3 DC C'CK RD DATA'
001134 SIOVR4 EQU SECST6308	0018DE C1
00114D SIOSWS EQU SECST&333 0011F8 STATSV EQU SECST&504	0018DF 406040D9C5E2C9C4E4 LGMSG1 DC C' - RESIDUAL COUN'
DOILFA CSWAG EQU SECSTE506	0018E8
001231 UAPU EQU SECST&561	0018F8 40E2CBD3C440C2
OO112C CSWSAV EQU SECST&300 OO114C CAWKEY EQU SECST&332	0018FF C540F0F0F2F0 DC C'E 0020*
0011F7 SENSE EQU SECST8503	**************************************
00122D UARD EQU SECST6557	#####################################
0016EC EXIT EQU SECST61772 0016E6 EXITBY EQU SECST61766	001906 CNOP 0,4 FULL WORD ALIGNMENT
0016E6 EXITBY EQU SECST&1766 00179C SCHNUM EQU SECST&1948	001906 07 00 BCR 0.0
001234 SCPDAT EQU SECST&564	001908 03 RTN03 DC XL1*03* ROUTINE NUMBER 001909 00 DC XL1*0* FLAGS
00163E SCPROO EQU SECST&1598	00190A FFFE DC X*FFFE* ADDRESS OF NEXT ROUTINE
0012E8	00190C 95 83 F 79C INITOO CLI SCHNUM, X 83 SEE IF SEARCHING FOR ROUTINE 03
000040 HCSW EQU 64	00190C 95 83 F 79C INITOO CLI SCHNUM, X 83 SEE IF SEARCHING FOR ROUTINE 03 001910 47 80 F 918 BC EQUAL, INITO1 BR IF YES
001202 MESS1 EQU SECSTE514	001914 47 FO F 6EC BC ALWAYS, EXIT BYPASS THIS ROUTINE
001015 ORG SECST621	001918
001015 001908 DC AL3(RTNO3) INITIAL PSW STARTING ADDR FOR RTN 03	00191C
001700 ORG SECST62000	001922 80 DC X'80' ,, NORMAL OUTPUT
* VARIABLES FOR ROUTINE 03 - DOUBLE WORD BOUNDARY *	001923 1F DC X*1F* ,, 31 CHARACTERS 001924 F DCA DC S(TITLE) ,, ADDRESS OF TITLE
***************************************	001924 F DCA DC S(TITLE) ,, ADDRESS OF TITLE 001926 91 40 F 004 INIT10 TM SNSW,X*40* WANT UTILITY ROUTINE - SEC SS 01
001700 00 DC X'00' 001702 CNOP 0.8 ALIGN ON DOUBLE WORD BOUNDARY	00192A 47 80 F 932 BC ALLOFF,ADCKOO BR IF NO
0017D2 CNOP 0,8 ALIGN ON DOUBLE WORD BOUNDARY 0017D2 07 00 BCR 0,0	00192E 45 80 F 63E BAL GR8, SCPROO BR TO UTILITY ROUTINE
0017D4 07 00 BCR 0,0 0017D6 07 00 BCR 0,0	# PERFORM TWO DIAGNOSTIC CHECK READS TO READER
0017D8 00000000000000 ERNUM DC XL8*00*	001932 DZ 01 F 234 F DE9 ADCKOO MVC SCPDAT(2);RO3KOO CLEAR READ AREA
**************************************	001938 D2 61 F 236 F 235 MVC SCPDAT62(98), SCPDAT61 ,,
* VARIABLES AFOR ROUTINE 03 - WORD BOUNDARY *	
10 500 %	DATE 15JUL65 17MAR66 ID F805-1
DATE 15JUL65 17MAR66 ID F805-1 FC 124265 125643 PAGE 1	EC 124265 125643 PAGE 1A
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	* F8041 F8051	2821 SCAN/2540 READER BUFFER ADDR FLT -ROUTIN				# F8041 F8051	2821 SCAN/2540 READER/F BUFFER ADDR FLT -ROUTINE			
	00193E 001942 001946 00194A 001952 001956 00195A	41 10 F DB0 50 10 F 048 48 CO F 0E2 92 02 F 14D 45 BO F 2E8 91 CO F 234 47 80 F 96A D2 02 F 212 F 22D	LA ST LH MVI BAL TM BC ADCKO1 MVC	GR1,CRDCCW GR1,CAW GRC,UN1ADR SIOSWS,X*02* GRB,SIO SCPDAT,X*CO* ALLOFF,ADCK1O MESSI&16(3),UARD	LOAD CCW ADDRESS IN SEC PREF CAW SET READER ADDRESS IN GR 12 SET SIO PROGRAM SWITCHES BR TO SIO ROUTINE WAS ANY DATA TRANSFERRED BR IF YES SET READER ADDRESS IN OUTPUT MESSAGE	001A40 001A44 001A48 001A4C 001A52 001A56 001A58	47 80 F B02 92 20 F 8BC 47 F0 F B0E D5 63 F 850 F 234 47 60 F AFA OA D0 84	BC MVI BC ADCK51 CLC BC SVC DC	EQUAL, ADCK80 SWITCH, X'20' ALWAYS, ADCK90&4 DRPU(100), SCPDAT NEQUAL, ADCK70 X'DO' X'84' X'10'	BR IF NO - READER BAR PROBLEM SET UP TO LOOK FOR FALSE ADDR CHECKS BAR PROBLEM SEE IF ANY ADDR ERRS FOR PUNCH BR IF YES - PUNCH BAR PROBLEM PRINT NO ADDRESSING ERRORS DETECTED ,, NORMAL OUTPUT ,, 16 CHARACTERS
man or all common tradition of the designation of	001960 001962 001963 001964 001966	0A D0 44 2A F 202 47 F0 F 932	SVC DC DC DC DC	X*DO* X*44* X*2A* S(MESS1) ALWAYS,ADCKOO	ERROR - NO DATA WAS TRANSFERRED BY ,, DIAGNOSTIC CK RD TO READER ,, 42 CHARACTERS ,, ADDRESS OF MESSAGE GO TRY AGA IN	001A5A 001A5C 001A60 001A64 001A68	F EB3 91 40 F 004 47 80 F A68 45 80 F 63E 91 20 F 004	DC ADCK52 TM BC BAL TM	S(NOERR) SNSW,X'40' ALLOFF,*&B GR8,SCPROO SNSW,X'20'	,, ADDRESS OF MESSAGE SEE IF WANT UTILITY ROUTINE BR IF NO BR IF YES SEE IF WANT LOG-OUT
e e e e e e e e e e e e e e e e e e e	00196A 001970 001976 00197A 00197E	D2 01 F 234 F DE9 D2 61 F 236 F 235 45 B0 F 2E8 91 CO F 234 47 10 F 95A	ADCK10 MVC MVC BAL TM BC	SCPDAT(2),RO3KOO SCPDAT62(98),SCPDAT61 GRB,SIO SCPDAT,X*CO* ALLON,ADCKO1	CLEAR READ AREA	001A6C 001A70 001A72 001A74 001A76	47 80 F AAE OA DD OO5A 07E4 0234	BC SVC DC DC DC	ALLOFF, PERT X'DD' AL2(90) AL2(DRDR-SECST) AL2(SCPDAT-SECST)	BR IF NO CONVERT READER CK RD DATA TO EBCDIC NO OF DIAG CK READ BYTES DIAG READ DATA ADDR EBCDIC DATA ADDR IN OUTPUT MESSAGE
The state of the second second	001982 001988	D2 63 F 7E4 F 234 D2 07 F 848 F 1FA	MVC MVC	DRDR(100),SCPDAT RCSWAG(8),CSWAG	SAVE READER DIAG CHECK READ DATA SAVE READER CSW	001A78 001A7E 001A84, 001A88 001A8A	D2 02 F 8CC F 22D D2 03 F 7E2 F 84E 45 30 F ABE 0A DD	MVC MVC BAL SVC DC	LGMSG&7(3), UARD RESCNT&2,RCSWAG&6 GR3,ADCK53 X'DD' AL2(90)	SET READER ADDR IN OUTPUT MESSAGE SAVE READER RESIDUAL COUNT GO PRINT READER DIAG CK READ DATA CONVERT PUNCH CK RD DATA TO EBCDIC NO OF DIAG CK READ BYTES
And the second of the second o	00198E 001994 00199A 00199E 0019A2 0019AA	D2 01 F 234 F DE9 D2 61 F 236 F 235 48 C0 F 0E6 92 00 F 14D 45 B0 F 2E8 91 C0 F 234 47 80 F 9BE	ADCK20 MVC MVC LH MVI BAL TM BC	SCPDAT(2),R03K00 SCPDAT62(98),SCPDAT61 GRC,UNZADR SIOSWS,X*00* GRB,SIO SCPDAT,X*CO* ALLOFF,ADCK30	SET PUNCH ADDRESS IN GR 12 SET SIO PROGRAM SWITCHES BR TO SIO ROUTINE WAS ANY DATA TRANSFERRED BR IF YES	001A8C 001A8E 001A90 001A96 001A9C 001AA0 001AA2	0850 0234 D2 02 F 8CC F 231 D2 03 F 7E2 F 8BA 45 30 F ABE 0A DA 91 40 F 004	DC DC MVC MVC BAL SVC TM	AL2(DRPU-SECST) AL2(SCPDAT-SECST) LGMSG&7(3),UAPU RESCNT&2,PCSWAG&6 GR3,ADCK53 X'DA' SNSW,X'40'	DIAG READ DATA ADDR EBCDIC DATA ADDR IN OUTPUT MESSAGE SET PUNCH ADDRESS IN OUTPUT MESSAGE SAVE PUNCH RESIDUAL COUNT GO PRINT PUNCH DIAG CK READ DATA HALT & WAIT FOR ACTION SEE IF WANT UTILITY ROUTINE
or Colomora Breita materialism de la constitución d	0019AE 0019B4 0019B6 0019B7 0019B8 0019BA 0019BE	D2 02 F 212 F 231 0A D0 44 2A F 202 47 F0 F 98E D2 01 F 234 F DE9	ADCK21 MVC SVC DC DC DC DC BC ADCK30 MVC	MESS1616(3), UAPU X'DO' X'44' X'2A' S(MESS1) ALWAYS, ADCK20 SCPDAT(2), RO3K00	SET PUNCH ADDRESS IN OUTPUT MESSAGE ERROR - NO DATA WAS TRANSFERRED BY ,, DIACHOSTIC CK RD TO PUNCH ,, 42 CHARACTERS ,, ADDRESS OF MESSAGE GO TRY AGAIN CLEAR READ AREA	001AA6 001AAA 001AAE 001AB2 001AB6 001ABA	47 80 F AAE 45 80 F 63E 91 20 E 1A3 47 10 F 6EC 96 40 F 79C 47 F0 F 6EC 58 00 F 7EO	BC BAL PERT TM BC OI BC ADCK53 L	ALLOFF,*&8 GR8,SCPR00 419(GRE),X*20* ALLON,EXIT SCHNUM,X*40* ALWAYS,EXIT GR0,RESCNT	BR IF NO BR IF YES IS LOOP ON SEC SS ON BR IF YES SET UP TO BYPASS ALL REMAINING OVLYS ROUTINE EXIT LOAD RESIDUAL COUNT IN GR O
or summer for a first second constraint of	0019C4 0019CA 0019CE 0019D2 0019D6 0019DC	D2 61 F 236 F 235 45 80 F 2E8 91 CO F 234 47 10 F 9AE D2 63 F 850 F 234 D2 07 F 884 F 1FA	MVC BAL TM BC MVC MVC	SCPDATE2(98), SCPDATE1 GRB, SIO SCPDAT, X*CO* ALLON, ADCK21 DRPU(100), SCPDAT PCSWAG(8), CSWAG	BY TO SID ROUTINE WAS ANY DATA TRANSFERRED BR IF NO SAVE PUNCH DIAG CHECK READ DATA SAVE PUNCH CSW	001AC2 001AC6 001AC8 001ACA 001ACC	4E 00 F 7D8 0A DD 0003 07DD 07D7 D2 03 F 8F4 F 7D8 0A DO	CVD SVC DC DC DC MVC SVC	GRO, ERNUM X'DD' AL2(3) AL2(ERNUM&5-SECST) AL2(ERNUM-1-SECST) LGMSG1&21(4), ERNUM X'DO'	CONVERT RESIDUAL COUNT TO DECIMAL CONVERT RESIDUAL COUNT TO PRINTABLE ,, 3 HEX BYTES ,, HEX DATA ADDRESS ,, PRINTABLE DATA ADDRESS LOAD RESIDUAL COUNT IN MESSAGE PRINT RDR/PCH DIAG CK RD DATA
			* SEPAR	ATE RAR, PAR, AND BAR	FAILURES HERE	001AD6 001AD7	80 40	DC DC	X*80* X*40*	,, NORMAL OUTPUT ,, 64 CHARACTERS
e in entre e	0019E2 0019E6 0019EA 0019EE 0019F2 0019F6 0019FA	41 10 F 7E4 41 20 F 848 45 30 F 9FA 41 10 F 850 41 20 F 8B4 41 30 F A16 15 12	ADCK40 LA LA BAL LA LA LA ADCK41 CLR	GR1,DRDR GR2,DRDR&100 GR3,ADCK41 GR1,DRPU GR2,DRPU6100 GR3,ADCK50 GR1,GR2	INITIALIZE FILTER RTN FOR READER OR TO FILTER ROUTINE INITIALIZE FILTER RTN FOR PUNCH OR TO FILTER OR TO FILTER	001AD8 001ADA 001ADC 001ADD 001ADE 001AE0 001AE2	F 8C5 OA DO 80 3C F 234 OA DO 80	DC SVC DC DC DC SVC DC	S(LGMSG) X'DO' X'8O' X'3C' S(SCPDAT) X'DO' X'8O'	,, ADDRESS OF MESSAGE ,, FIRST 30 BYTES OF DIAG CK RD DAT , NORMAL DUTPUT ,, 60 CHARACTERS ,, ADDRESS OF MESSAGE ,, SECOND 30 BYTES ,, NORMAL DUTPUT
مر المراكب في سيكنا المنت الميسة والمتعادلية	0019FC 0019FE 001A04 001A08 001A0E 001A12	07 83 D2 00 F 234 1 000 94 01 F 234 D2 00 1 000 F 234 41 10 1 001 47 F0 F 9FA	BCR MVC NI MVC LA BC	EQUAL,GR3 SCPDAT(1),O(GR1) SCPDAT,X*01* O(1,GR1),SCPDAT GR1,1(GR0,GR1) ALWAYS,ADCK41	SET UP DATA FOR FILTERING FILTER OUT ALL BUT ADDR ERRS RETURN DATA ADD 1 TO GR1 CONTINUE	001AE3 001AE4 001AE6 001AE8 001AE9	3C F 270 OA DO 80 3C F 2AC	DC DC SVC DC DC DC	X'3C' S(SCPDAT&60) X'DO' X'8O' X'3C' S(SCPDAT&120)	,, 60 CHARACTERS ,, ADDRESS OF MESSAGE ,, LAST 30 BYTES ,, NORMAL OUTPUT ,, 60 CHARACTERS ,, ADDRESS OF MESSAGE
and the second second	001A16 001A1A 001A1E 001A22 001A26 001A2A	95 14 F 84F 47 60 F AEE 95 14 F 8BB 47 60 F AFA 92 00 F 234 02 62 F 235 F 234	ADCK50 CLI BC CLI BC MVI MVC	RCSWAG&7,X*14* NEQUAL,ADCK60 PCSWAG&7,X*14* NEQUAL,ADCK70 SCPDAT,X*00* SCPDAT&1(99),SCPDAT	RESIDUAL CCW COUNT FOR RDR EQ 20 BR IF NOT EQ RESIDUAL COUNT FOR PUNCH EQ 20 BR IF NOT EQ - PAR PROBLEM CLEAR COMPARE FIELD	001AEC 001AEE 001AF2 001AF6	07 F3 95 14 F 8BB 47 60 F BOA 47 F0 F BO2		ALWAYS,GR3 PCSWAG&7,X°14° NEQUAL,ADCK90 ALWAYS,ADCK80 ************************************	RETURN RESIDUAL CCW COUNT FOR PUNCH EQ 20 BR IF NO - BAR PROBLEM RAR PROBLEM
And the second second	001A30 001A36 001A3A	D5 63 F 7E4 F 234 47 80 F A4C D5 63 F 850 F 234	CLC BC CLC	DRDR(100),SCPDAT EQUAL,ADCK51 DRPU(100),SCPDAT	SEE IF ANY ADDR ERRS FOR READER BR IF NO SEE IF ANY ADDR ERRS FOR PUNCH	001AFA 001AFE	92 40 F 8BC 47 FO F CCA	•	SWITCH,X'40' ALWAYS,ADCKBO	TURN ON PROGRAM PAR SWITCH GO FIND PAR PROBLEM
	DATE EC	15JUL65 17MAR66 124265 125643			ID F805-1 PAGE 2	DATE EC	15JUL65 17MAR66 124265 125643			ID F805-1 PAGE 2A

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P/N 840260 PAGE 3 18M MAINTENANCE DIAGNOSTIC PROGRAM

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• F8041 2821 SCAN/2540 READER/PUNCH F8051 BUFFER ADDR FLT -ROUTINE OVERLAY 03* F8041 2821 SCAN/2540 READER/PUNCH F8051 BUFFER ADDR FLT -ROUTINE OVERLAY 03-

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1		黄芩参替春桂类心黄茯苓	有关外部外部条件设计分子设置条件合作部级 新霉素	· 网络拉拉斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯	. 001BF4	47 FO F C42	BC BC	ALWAYS, ALGC 50 °	GO COMPARE
1			HERE IF RAR PROBLEM	*	001BF8	41 50 4 00A	ALOCZO LA	GR5,10(GR0,GR4)	INITIALIZE TENS LOAD COMPARE
				非法常治验者 经公共公司 计设备 计电子 电电子电子电子电子电子电子电子电子电子电子电子电子电子电子电子电子电子	001BFC	41 60 4 000	LA	GR6,0(GR0,GR4)	9 9
001802	92 80 F 8BC	ADCK80 MVI	SWITCH, Xº80°	TURN ON PROGRAM RAR SHITCH	001000	41 70 F 234	LA	GR7, SCPDAT	py prove the major was an arrain to be a light
001806	47 FO F CCA		- ALWAYS, ADCKBO	GO FIND RAR PROBLEM	001C04 001C06	15 56 47 80 F C42	ALOCZI CLR BC	GR5,GR6 EQUAL,ALOC50	SEE IF END OF TENS LOAD BR IF YES - GO COMPARE
				化实验检验检验检验检验检验检验检验检验检验检验检验检验检验检验检验检验检验检验检	001000	91 01 6 000	TM	0(GR6),X°01°	SEE IF LOAD TEN ADDR ERRS IN CMP FLD
			HERE IF BAR PROBLEM	》 移行指令的条件的指令的现在分词的 医皮肤性 医性性性 医性性性 医性性性炎 医皮肤性炎	001C0E	47 80 F C2A	BC	ALLOFF, ALOC30	BR IF NO
001B0A	92 00 F 8BC	ADCK90 MVI	SWITCH, X OO'	TURN ON PROGRAM BAR SWITCH	001012	92 01 7 000	MVI	O(GR7),X'01'	LOAD TEN ADDR ERRS
001B0E	45 BO F BBE	BAL	GRB, ALOCOO	GO SEE IF CAN FIND BAR PROBLEM	001016	D2 08 7 001 7 000	MVC	1(9,GR7),O(GR7)	7 1
001812	92 00 F 234	MVI	SCPDAT,X'00'	SET COMPARE FIELD TO ZEROS	001010	41 00 F E8B	LA	GRO, BTDON .	SEE IF TENS D ON PATTERN
001816	D2 62 F 235 F 234	MVC	SCPDATE1(99), SCPDAT	9 9	001020	15 40	CLR	GR4,GR0	9.9
001B1C	92 01 F 28D	MVI	SCPDATE89,X*01*	SET UP FOR ERROR 129	001022	47 60 F C2A	BC.	NEQUAL, ALOC30	* SET UP FOR TENS D ON
001820	D5 59 F 234 F 7E4	CLC	SCPDAT(90),DRDR	SEE IF THIS PATTERN COMPARES	001026	92 01 F 266	MVI	SCPDATE50,X*01	, SET UP FOR TENS D ON
001826	47 60 F B36	₿Ç :	NEQUAL, ADCK91	BR IF NO	001C2A	41 70 7 00A	ALOC30 LA	GR7,10(GR0,GR7)	UPDATE ADDRESSES
001B2A	41 90 0 081	LA	GR9,129	SET UP ERROR NUMBER	001C2E 001C32	41 60 6 001 47 FO F CO4	LA BC	GR6,1(GR0,GR6) ALWAYS,ALOC21	CONTINUE
00182E	45 AO F CBC	BAL	GRA,ALOC60	GO SET UP PRINTOUT	001032	D2 09 F 234 4 000		SCPDAT(10) +0(GR4)	LOAD UNITS PATTERN
001B32	47 FO F C9E	80	ALWAYS, ADCKAO	GO PRINT BAR PROB 129	001030	D2 4F F 23E F 234		SCPDATE10(80), SCPDAT	
001836 00183A	41 90 0 063 D5 01 F DC8 F 84E	ADCK91 LA CLC	GR9,99 COM50(2),RCSWAG&6	SET UP ERROR 099 SEE IF READER RESIDUAL COUNT IS 0050	001042	41 80 F C9E	ALOC50 LA	GR8, ADCKAO	INITIALIZE ERR BRCH ADDR
00183A	47 60 F B56	BC	NEQUAL ADCK92	BR IF NO	001046	41 90 1 000	LA	GR9,0(GR0,GR1)	INITIALIZE ERROR NUMBER
001844	D5 01 F DC8 F 8BA	CLC	COM50(2),PCSWAGG6	SEE IF PUNCH RESIDUAL COUNT IS 0050	001C4A	91 CO F 8BC	TM	SWITCH, X°CO'	SEE IF RAR OR PAR PROBLEM.
CO184A	47 60 F B56	BC	NEQUAL, ADCK92	BR IF NO	001C4E	47 80 F C72	BC	ALLOFF,ALOC52	BR 1F NO - GO COMPARE
001B4E	45 AO F CBC	BAL	GRA, ALOC60	GO SET UP PRINTOUT	001052	91 80 F 8BC	TM	SWITCH, Xº80°	SEE IF RAR PROBLEM
001852	47 FO F C9E	BC°	ALWAYS, ADCKAO	GO PRINT BAR PROBLEM 009	001056	47 10 F C6A	BC	ALLON, ALOC51	BR IF YES
001856	91 20 F 8BC	ADCK92 TM	SWITCH, X 20"	SEE OF POSSIBLE FALSE ADDRESS CHECKS	001C5A	41 80 8 014	LA	GR8,20(GR0,GR8)	SET ERROR BRCH FOR PUNCH
001B5A	47 80 F BB2	. BC	ALLOFF, ADCK93	BR IF NO	001C5E	41 90 9 002	LA	GR9,2(GR0,GR9)	SET ERROR NUMBER FOR PUNCH
001B5E	41 10 F DB8	LA	GR1, PUWCCW	LOAD CCW ADDRESS IN SEC PREF CAW	001C62 001C66	41 70 F 850 47 F0 F C76	LA BC	GR7, DRPU ALWAYS, ALOC53	SET UP TO COMPARE TO PUNCH DATA GO COMPARE PUNCH DATA
001862	50 10 F 048	ST	GR1,CAW	LOAD CCW ADDRESS IN SEC PREF CAW	001C6A	41 80 8 00A	ALOC51 LA	GR8,10(GRO,GRB)	SET ERROR BRANCH FOR READER
001866	48 CO F 0E6	LH	GRC, UN2ADR	SET PUNCH ADDR IN GR 12	001C6E	41 90 9 001	LA	GR9.1(GR0,GR9)	SET ERROR NUMBER FOR READER
00186A 00186E	92 00 F 14D 45 B0 F 2E8	MVI BAL	SIOSWS,X*OO* GRB,SIO	SET SIO PROG SWITCHES FOR PUNCH BR TO SIO ROUTINE	001072	41 70 F 7E4	ALOC52 LA	GR7, DRDR	SET UP TO COMPARE TO READ DATA
001872	91 01 F 14D	TM	SIOSWS,X*O1*	SEE IF GOT INTERV REQ	001076	45 AO F CBC	ALDC53 BAL	GRA, ALOC 60	SET UP ERROR NUMBER
001876	47 10 F 90C	BC	ALLON, INITOO	RESTART SECTION IF YES	001C7A	15 42	CLR	GR4,GR2	SEE IF UNITS BAR PATTERNS
001B7A	92 00 F 234	MVI	SCPDAT, X 00	CLEAR READ FIELD	001C7C	47 40 F C8A	ВС	LOW, ALOC54	BR IF YES
001B7E	D2 4E F 235 F 234	MVC	SCPDATE1(79), SCPDAT	CLEAR READ FIELD	001080	D5 4F F 235 7 000		SCPDATE1(80),0(GR7)	COMPARE DATA -TENS-
001884	41 10 F DCO	LA	GR1, PURCCW	LOAD CCW ADDRESS IN SEC PREF. CAW	001086	47 FO F C90	BC	ALWAYS, ALOC5486	COMPANY DATA MANTE
001888	50 10 F 048	ST	GR1,CAW	LOAD CCW ADDRESS IN SEC PREF CAN	001C8A	D5 4F F 234 7 000		SCPDAT(80),0(GR7)	COMPARE DATA -UNITS-
001B8C	92 02 F 14D	IVM	SIOSWS, Xº 02º	SET SIO PROGRAM SWITCHES	001090	07 88 41 10 1 003	BCR LA	EQUAL, GR8 GR1, 3 (GR0, GR1)	PRINT ERROR IF PATTERN EQUAL UPDATE ERROR NUMBER
001890	45 BO F 2E8	BAL	GRB,SIO	BR TO SIO ROUTINE	001096	41 40 4 00A	LA	GR4,10(GR0,GR4)	UPDATE PATTERN ADDRESS
001B94 001B98	91 01 F 14D 47 10 F 90C	TM BC	SIOSWS,X°O1° ALLON,INITOO	SEE IF GOT INTERV REQ RESTART SECTION IF YES	001C9A	47 FO F BD2	BC	ALWAYS, ALOCIO	CONTINUE
001896	D5 4F F 234 F 2E8	CLC	SCPDAT(80),SIO	SEE IF DATA READ OK	001C9E	OA DO	ADCKAO SVC	X'DO'	PRINT - BAR PROBLEM - ERROR NUMBER
001BA2	47 60 F BB2	BC	NEQUAL, ADCK93	BR IF NO	001CA0	44	DC DC	X * 44 *	,, IN BYTE 3 OF GR 9
001BA6	41 90 0 086	LA	GR9,134	SET UP ERROR NUMBER 134	001CA1	07	DC	X*07*	,, 7 CHARACTERS
0018AA	45 AO F CBC	BAL	GRA,ALOC60	GO SET UP PRINTOUT	001CA2	F 88D	DC	S(ERRX)	,, MESSAGE ADDRESS
001BAE	47 FO F C9E	BC	ALWAYS, ADCKAO	GO PRINT BAR PROB 134	001CA4	47 FO F A5C	BC	ALWAYS, ADCK 52	GO SEE IF WANT UTILITY RTN OR LOGOUT
001882	41 90 0 032	ADCK93 LA	GR9,50	SET UP ERR 050	001CA8	0A D0 44	SVC DC	X*DO* X*44*	PRINT - RAR PROBLEM - ERROR NUMBER ,, IN BYTE 3 OF GR 9
001886	45 AO F CBC	BAL	GRA, ALOC60	GO SET UP PRINTOUT	001CAB	07	DC -	X 07 '	,, 7 CHARACTERS
001BBA	47 FO F C9E	BC	ALWAYS, ADCKAO	GO PRINT BAR PROB 050	OOLCAC	F 8BD	DC	S(ERRX)	, MESSAGE ADDRESS
		# DOUT	INE TO LOCALIZE BAR, PA	AD DE DAD POORIEMS	001CAE	47 FO F A5C	BC	ALWAYS, ADCK52	GO SEE IF WANT UTILITY RTN OR LOGOUT
		* 1001	INC TO ESCALIZE DARY FA	AND ON MAN PRODUCTS	001CB2	OA DO	SVC	X DO	PRINT - PAR PROBLEM - ERROR NUMBER
001BBE	41 10 0 033	ALDCOO LA	GR1,51	INITIALIZE ROUTINE	001CB4	44	DC	X * 44 *	,, IN BYTE 3 OF GR 9
001BC2	41 90 0 033	LA	GR9,51	,, START WITH ERR 051	001CB5	07	DC	X*07*	,, 7 CHARACTERS
001BC6	41 20 F E4F	LA	GR2,BTAON	,, DEFINE START OF TENS BAR PATTERN	001CB6	F 8BD	DC	S(ERRX)	,, MESSAGE ADDRESS
OOIBCA	41 30 F EB3	LA	GR3.BTEOFF&10	DEFINE END OF TENS BAR PATTERNS	001CB8	47 FO F A5C	ALOCAO CVD	ALWAYS, ADCK52 GR9, ERNUM	GO SEE IF WANT UTILITY RTN OR LOGOUT CONVERT ERROR NUMBER TO DECIMAL
001BCE	41 40 F DEB	LA	GR4.BUAON	,, DEFINE START OF UNITS BAR PATTRN	001CBC	4E 90 F 7D8	ALOC60 CVD SVC	X*DD!	CONVERT ERROR NUMBER TO EBCDIC
001BD2	15 43	ALOC10 CLR	GR4, GR3	SEE IF END OF BAR PATTERNS	001CC0 001CC2	0002	DC	AL2(2)	,, 2 HEX BYTES
001BD4	07 8B	BCR	EQUAL, GRB	BR IF YES	001CC4	07DE	DC	AL2(ERNUME6-SECST)	HEX DATA ADDRESS
001BD6 001BDA	92 00 F 234 D2 62 F 235 F 234	MVI	SCPDAT, X'00' SCPDAT&1(99), SCPDAT	SET COMPARE FIELD TO ZEROS	001006	.08C1	DC	AL2(ERRX&4-SECST)	,, EBCDIC DATA ADDRESS
001BE0	15 42	CLR	GR4,GR2	SEE IF UNITS BAR PATTERNS	001008	07 FA	BCR	ALWAYS, GRA	RETURN TO PROGRAM
001BE2	47 40 F C36	BC	LOW, ALDC40	BR IF YES	OOICCA	45 BO F BBE	ADCKBO BAL	GRB,ALOCOO	GO FIND RAR OR PAR PROBLEM
001BE6	41 50 F E77	LA	GR5.BTCON	SEE IF TEN-C-ON PATTERN	001CCE	41 10 0 06F	LA	GR1,111	INITIALIZE ERROR NUMBER
001BEA	- 15 45	CLR	GR4, GR5	그림, 그 이 얼마는 생기 나라면 하는 일을 가는 것을 살았다.	001CD2	41 90 0 06F	LA	GR9,111	CET UD COMPAGE DATA EGO EGO 1114115
001BEC	47 60 F BFB	BC BC	NEQUAL, ALOC20	,, BR IF NO	001006	92 01 F 234	MVI	SCPDAT, X'01' SCPDAT&1(99), SCPDAT	SET UP COMPARE DATA FOR ERR 111/112
001BF0	92 01 F 235	MVI	SCPDATE1,X'01'	SET UP COMPARE FIELD FOR TENS-C ON	001CDA	D2 62 F 235 F 234	, mvu	SOFUM IULI 777 F SUPUAT	용하는 하는 사람들이 하는 생각 사이는 모양물을
			살아 된다는 아니라 아니다.	김 그들은 사람들 중인경 아니라 경우를 받아 하셨					그 그 그 그들은 보기에게 그 가장이 가는 요요 나를 했다.
DATE	15JUL65 17MAR66			ID F805-1	DATE	15JUL65 17MAR66			ID F805-1
	124265 125643			PAGE 3	EC	124265 125643			PAGE 3A
1	·我,因此"多一"就作"我"。我				1 3 36	ひきしゃかんい だし			
			$x_i \mapsto (y_i + y_i) + y_i = y_i$		The second second			경기 등이 되는 경우 이 시간	

DATE

15JUL65

124265

P/N 840260 PAGE

"IBM MAINTENANCE DIAGNOSTIC PROGRAM

* F8041 2821 SCAN/2540 READER/PUNCH

BUFFER ADDR FLT -ROUTINE OVERLAY 03-

P/N 840260 PAGE

F8041 2821 SCAN/2540 READER/PUNCH F8051 BUFFER ADDR FLT -ROUTINE OVERLAY 03-

```
000002
000008
            ZERO
                                                ZERO
000002
            GZERO
                                                GREATER ZERO
000008
            AVAIL EQU
                                                AVAILABLE
000004
            CSWST FOU
000002
            BUSY
                   EQU
                                                BUSY
00000F
            ALWAYS EQU
                                                UNCONDITIONL
00000D
            NOTBSY EQU
                                                NOT BUSY
000007
            NZERO EQU
                                                NOT CC 0
000004
            NOTZRO EQU
                                                NOT ZERO -AND-
00000C
            MIXNON FOU
                                                MIXED OR NONE 0 1
```

****************** ERROR NUMBER LIST FOR ROUTINE 03

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   ERROR 050 - BAR PROBLEM. ERROR PATTERN CANNOT BE IDENTIFIED.
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ERROR O50 - BAR PROBLEM. ERROR PATTERN CANNOT BE IN PROBLEM MAY BE INTERMITTENT.

ERROR O51 - BAR UNITS A OUTPUT ALWAYS ACTIVE.

ERROR O52 - RAR UNITS A INPUT TO BAR ALWAYS ACTIVE.

ERROR O53 - PAR UNITS A INPUT TO BAR ALWAYS ACTIVE.

ERROR O54 - BAR UNITS A OUTPUT NEVER ACTIVE.

ERROR O55 - RAR UNITS A INPUT TO BAR NEVER ACTIVE.
  ERROR 056 - PAR UNITS A INPUT TO BAR NEVER ACTIVE.
 ERROR 057 - BAR UNITS B OUTPUT ALWAYS ACTIVE.
ERROR 058 - RAR UNITS B INPUT TO BAR ALWAYS ACTIVE.
ERROR 059 - PAR UNITS B INPUT TO BAR ALWAYS ACTIVE.
ERROR 060 - BAR UNITS B OUTPUT NEVER ACTIVE.
  ERROR 061 - RAR UNITS B INPUT TO BAR NEVER ACTIVE.
  ERROR 062 - PAR UNITS B INPUT TO BAR NEVER ACTIVE.
 ERROR 063 - BAR UNITS C OUTPUT ALWAYS ACTIVE.
ERROR 064 - RAR UNITS C INPUT TO BAR ALWAYS ACTIVE.
ERROR 065 - PAR UNITS C INPUT TO BAR ALWAYS ACTIVE.
ERROR 066 - BAR UNITS C OUTPUT NEVER ACTIVE.
  ERROR 067 - RAR UNITS C INPUT TO BAR NEVER ACTIVE.
  ERROR 068 - PAR UNITS C INPUT TO BAR NEVER ACTIVE.
 ERROR 069 - BAR UNITS D OUTPUT ALWAYS ACTIVE.
ERROR 070 - RAR UNITS D INPUT TO BAR ALWAYS ACTIVE.
ERROR 071 - PAR UNITS D INPUT TO BAR ALWAYS ACTIVE.
ERROR 072 - BAR UNITS D OUTPUT NEVER ACTIVE.
  ERROR 073 - RAR UNITS D INPUT TO BAR NEVER ACTIVE.
  ERROR 074 - PAR UNITS D INPUT TO BAR NEVER ACTIVE.
 ERROR 075 - BAR UNITS E DUTPUT ALWAYS ACTIVE.
ERROR 076 - RAR UNITS E INPUT TO BAR ALWAYS ACTIVE.
ERROR 077 - PAR UNITS E INPUT TO BAR ALWAYS ACTIVE.
ERROR 078 - BAR UNITS E DUTPUT NEVER ACTIVE.
  ERROR 079 - RAR UNITS E INPUT TO BAR NEVER ACTIVE.
ERROR 080 - PAR UNITS E INPUT TO BAR NEVER ACTIVE.

ERROR 081 - BAR TENS A OUTPUT ALWAYS ACTIVE.

ERROR 082 - RAR TENS A INPUT TO BAR ALWAYS ACTIVE.

ERROR 083 - PAR TENS A INPUT TO BAR ALWAYS ACTIVE.

ERROR 084 - BAR TENS A OUTPUT NEVER ACTIVE.
  ERROR 085 - RAR TENS A INPUT TO BAR NEVER ACTIVE.
ERROR 086 - PAR TENS A INPUT TO BAR NEVER ACTIVE.
ERROR 087 - BAR TENS A B OUTPUT ALWAYS ACTIVE.
ERROR 088 - RAR TENS B INPUT TO BAR ALWAYS ACTIVE.
ERROR 089 - PAR TENS B INPUT TO BAR ALWAYS ACTIVE.
  ERROR 090 - BAR TENS B OUTPUT NEVER ACTIVE.
  ERROR 091 - RAR TENS B INPUT TO BAR NEVER ACTIVE.
  ERROR 092 - PAR TENS B INPUT TO BAR NEVER ACTIVE.
ERROR 093 - BAR TENS C OUTPUT ALWAYS ACTIVE.
ERROR 094 - RAR TENS C INPUT TO BAR ALWAYS ACTIVE - OR, RAR
TENS C TRIGGER ALWAYS ACTIVE.
ERROR 095 - PAR TENS C INPUT TO BAR ALWAYS ACTIVE - OR, PAR'
                           TENS C TRIGGER ALWAYS ACTIVE.
  ERROR 096 - BAR TENS C DUTPUT NEVER ACTIVE.
  ERROR .097 - RAR TENS C INPUT TO BAR NEVER ACTIVE.
  ERROR 098 - PAR TENS C INPUT TO BAR NEVER ACTIVE.
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ERROR 101 - PAR TENS D INPUT TO BAR ALWAYS ACTIVE.
ERROR 102 - BAR TENS D OUTPUT NEVER ACTIVE.
ERROR 103 - RAR TENS D INPUT TO BAR NEVER ACTIVE.
   ERROR 104 - PAR TENS D INPUT TO BAR NEVER ACTIVE.
  ERROR 105 - BAR TENS E OUTPUT ALWAYS ACTIVE.
ERROR 106 - RAR TENS E INPUT TO BAR ALWAYS ACTIVE.
ERROR 107 - PAR TENS E INPUT TO BAR ALWAYS ACTIVE.
ERROR 108 - BAR TENS E OUTPUT NEVER ACTIVE.
ERROR 109 - RAR TENS E INPUT TO BAR NEVER ACTIVE.
ERROR 110 - PAR TENS E INPUT TO BAR NEVER ACTIVE.
  ERROR 111 - RAR PROBLEM PROBABLY CAUSED BY ONE OF THE FOLLOWING-
                                   1. UNITS AND/OR TENS TRIGGERS A AND/OR B
ALWAYS ACTIVE.
2. UNITS TRIGGER A NEVER ACTIVE.
3. TENS TRIGGERS D AND/OR E NEVER ACTIVE.
                                      4. FALSE ADDRESS CHECKS.
ERROR 112 - SAME AS ERROR 111 EXCEPT FOR PAR.
ERROR 113 - RAR UNITS TRIGGER B NEVER ACTIVE.
ERROR 114 - PAR UNITS TRIGGER B NEVER ACTIVE.
ERROR 115 - RAR UNITS C TRIGGER NEVER ACTIVE.
ERROR 116 - PAR UNITS C TRIGGER NEVER ACTIVE.
  ERROR 117 - RAR UNITS D TRIGGER NEVER ACTIVE.
ERROR 118 - PAR UNITS D TRIGGER NEVER ACTIVE.
ERROR 119 - RAR TENS B TRIGGER NEVER ACTIVE.
ERROR 120 - PAR TENS B TRIGGER NEVER ACTIVE.
ERROR 121 - RAR TENS C TRIGGER NEVER ACTIVE.
ERROR 122 - PAR TENS C TRIGGER NEVER ACTIVE.
```

ALWAYS ACTIVE.

2. UNITS ADVANCE NEVER ACTIVE.

3. TENS ADVANCE NEVER ACTIVE. ERROR 124 - SAME AS ERROR 123 EXCEPT FOR PAR. ERROR 124 - SAME AS ERROR 123 EXCEPT FOR PAREROR 125 - RAR UNITS C TRIGGER ALWAYS ACTIVE.

ERROR 126 - PAR UNITS C TRIGGER ALWAYS ACTIVE.

ERROR 127 - RAR PROBLEM. ERROR PATTERN CANNOT BE IDENTIFIED.

PROBLEM MAY BE INTERMITTENT

ERROR 128 - PAR PROBLEM. ERROR PATTERN CANNOT BE IDENTIFIED.

PROBLEM MAY BE INTERMITTENT.

ERROR 129 - PROBLEM IN CIRCUITS USED TO DETECT COLUMN 80.

ERROR 130 - RAR UNITS E TRIGGER NEVER ACTIVE.

ERROR 131 - PAR UNITS E TRIGGER NEVER ACTIVE.

ERROR 132 - RAR TENS A TRIGGER NEVER ACTIVE.

ERROR 133 - PAR TENS A TRIGGER NEVER ACTIVE.

ERROR 134 - FALSE ADDRESS CHECKS

ERROR 123 - RAR PROBLEM PROBABLY CAUSED BY ONE OF THE FOLLOWING-1. UNITS AND/OR TENS TRIGGERS D AND/OR E

ERROR 134 - FALSE ADDRESS CHECKS ********

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ERROR 099 - BAR TENS D OUTPUT ALWAYS ACTIVE.
ERROR 100 - RAR TENS D INPUT TO BAR ALWAYS ACTIVE.

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a demonstrates de la constante		•			102A, 1092, 1020,	1096,	1CE4,	1C5A, 1CF4, 1D68,	1D02,		101E								1 8	8 EQUAL 17D8 ERNUM			1A36, 1ACC,				1090					
		1	-1	GR1	1D9C			19EE,							٠,٠				1 16	2 GZERO 18C5 LGMSG		1490,		1000			•					
					1A0E, 1C46,	1092,	1092,	1862, 1CCE,	1CE4,	1888, 1CF4,	1D02					•			1 16	1202 MESS1 4 MIXED 1EB3 NOERR	195A,	17049	19AE,	1 700								
		. 1	2	GR2	1010, 19E6, 1CF0,	19F2,	19FA,	1D3A, 1BC6, 1D1A,	1BEO,	1C7A,	1CEO								1 1	7 NZ ERO 1908 RTNO3	1015											
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and the second		1	5	GR5 GR6	1036, 18E6,	1BEA,	1096, 18F8,	1C 04	1605										1 16	11F7 SENSE 1DCA TITLE	1924	INOLY	Inchy	IACCY		1,000						
		- 1	. 7	GR7	1BFC, 1DAO 1COO,	1C04,		1C2E,											1	10E0 UNIT1 10E4 UNIT2												
		1	8		1072, 192E,	1C80, 1A64,	1C8A,	1D84, 1C42,	1D94,	1D94,	1DAC						p	*	6	1932 ADCK00 195A ADCK01	192A, 197E	1966										
		1	9	GR9	1C6A, 1B2A,	1836,	1846,	1882,	1802,	1046,	1C5E								6	196A ADCK10 198E ADCK20 19AE ADCK21	1956 198A 19D2											
					105E, 1002,	1D10,	IDIE,	1CBC, 1D2C,	1D3A,	1CE4, 1D5A,	1CF4 1D68							•	6 4	19BE ADCK30 19E2 ADCK40	1944											
		1	A B	GRA Grb	182E,	184E,	1BAA,	1D9C, 1BB6, 19CA,	1076,	1CC8,	1DA8						100		2	19FA ADCK41 1A16 ADCK50	19F6	1412										
		1	c	GRC	18D4,			22000	1001,	10027	1070					. •	Contraction		6	1A4C ADCK51 1A5C ADCK52		1CAE,	1CB8									
		1	D E	GRD GRE	1AAE														; 4	1ABE ADCK53 1AEE ADCK60 1AFA ADCK70	1A84, 1A1A 1A22,	1A9C 1A52										
		1	F 4 12E8	GRF LOW S IO	18E2,									*1::	•			•	4	1802 ADCK80 180A ADCK90	1A40, 1A48,	1AF6 1AF2										
		1	2		194E, 1DB8	19/09	19429	19CA,	1805,	1890,	1890								4	1836 ADCK91 1856 ADCK92	1826 1840,											
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	•	100	1850		1D98			1A3A,	1A4C,	1A8C,	1062								4 %	1CCA ADCKBO 1D84 ADCKB1		1CF0, 1D5E,	1CFE,	1DOC.	1D1A,	1D28,	1D36					
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		1	40	HCSW													1		1	8 ALLOFF	185A,	1COE,	1956, 1C4E	1944,	1A60,	1A6C,	1 A A 6					9
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		1	1004 1231 122D	SNSW UAPU UARD	1918, 19AE, 195A,	1A90	1A5C,	1468,	1442										2	1CO4 ALOC21 1C2A ALOC30	1C32 1COE,	1022										
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DA1	E	15JUL 12426		MAR66 5643								•			ID PAGE	F805-		DATE	15JUL6 124265			n nesti.									F805-	
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IBM MAINTENANCE DIAGNOSTIC PROGRAM P/N 840260 IBM MAINTENANCE DIAGNOSTIC PROGRAM P/N 840260 PAGE PAGE * F8041 2821 SCAN/2540 READER/PUNCH F8051 BUFFER ADDR FLT -ROUTINE OVERLAY 03-* F8041 2821 SCAN/2540 READER/PUNCH F8051 READER TRANSLATOR FLT -ROUTINE OVERLAY 04-1AF6, 1AFE, 1806, 1832, 1852, 18AE, 18BA 1C32, 1C66, 1C86, 1C9A, 1CA4, 1CAE 1CB8, 1CC8, 1D78, 1D80, 1DAC .8051 TITLE F8051 READER TRANSLATOR FLT -ROUTINE OVERLAY 04-XF8051 START 4096 1E59 BTAOF 1E6D BTBOFF USING *,15 001000 10 1E81 BTCOFF USING *64096,10 10 1E95 BTDOFF 1EA9 BTEOFF 1DF5 BUAOFF ********** 10 1BCA THIRD OVERLAY - ROUTINE 04 ************************* 1E09 BUBOFF RESIDENT LABELS ADDRESSED BY OVERLAYS 1E1D BUCOFF **************** 1E31 BUDOFF 001000 SECST EQU 1E45 BUEDFF 001004 SECST&4 114C CAWKEY 1DBO CRDCCW 001040 CSW EQU SECST&64 193E 112C CSWSAV 001048 CAW EQU SECST&72 0010E0 UNIT1 FOU SECST&224 16E6 EXITBY 0010E2 UNIADR EQU SECST&226 190C INIT00 1876, 1898 0010E4 UNIT2 EQU SECST&228 1918 INITO1 1910 0010E6 UNZADR EQU SECST&230 1926 INIT10 00112C SIOVR3 EQU SECST&300 16 18DF LGMSG1 001134 SIOVR4 EQU SECST&308 C. MIXNON 00114D SIOSW5 EQU SECST&333 6 NEQUAL 1A1A, 1A22, 1A52, 1AF2, 1B26, 1B40, 1B4A 0011F8 STATSV EQU SECST&504 18A2, 1BEC, 1C22, 1DA6 CSWAG EQU 0011FA SECST&506 9 NMIXED 001231 UAPU EQU SECST&561 D NOTBSY 001120 CSWSAV EQU SECST&300 4 NOTZRO 00114C 0011F7 CAWKEY EQU SECST&332 1884 PCSWAG 19DC, 1A1E, 1A96, 1AEE, 1B44 SENSE EQU SECST&503 1 DCO PURCCW 1884 001220 UARD FOII SECST&557 1DB8 PUWCCW 185E SECST&1772 0016EC EXIT EQU 1DE9 R03K00 196A. 198F. 198F 1932. EXITBY EQU SECST&1766 1848 RCSWAG 1A7E, 1B3A 1988, 1A16, 00179C SCHNUM EQU 17EO RESCNT 1A7E, 1496, 1ABE 001234 179C SCHNUM 1234 SCPDAT SCPDAT EQU SECST&564 190C, 1AB6 00163E SCPROO EQU SECST&1598 1932, 1970, 1938, 0012E8 SIO EQU SECST8744 1982, 1904, 197A. 198F. 1994. 1994. 1946, SVRPSW EQU 001060 SECST&96 1904, 19CF . 19FF . 1906. 1404. 1 408 001714 EXIT1 EQU SECST&1812 1A2A, 1A26, 1A2A. 1A30. 1A3A. 1A4C. 1A76 001710 EXIT2 EQU SECST&1820 1ADE, 1AE4, 1AEA, 1812, 1816, 1816 000048 HCAW EQU 72 1B20, 187A, 187E, 1B9C, 187E, 000040 HCSW EQU 18DA, 1C3C, 1BDA, 1C80, 1BFO, 1C00, 1C26, 1036, 001202 MESS1 SECST&514 EQU 1C8A. 1CD6, 1CDA. 1CDA, 1CF8 00114D SIDSWS EQU SECST&333 1CF8, ICEC, 1CF8, 1D06, 1D06, 1D14. 1014 1D22, 1D22, 1030, 1030, 103E, 1042. 1042 001015 ORG SECST&21 1050, 1050, 1D56, 1D62, 1D62, 1DAO 001015 001950 DC AL3(RTNO4) 10BO, 1DCO 192E, 1A64, 1AAA 194A, 199E, 1B6A, 1B72, 1B8C, 1B94 INITIAL PSW STARTING ADDR FOR RTN 04 001060 ORG SECST&96 X'010000000F 163E SCPROO 114D SIOSWS 001060 010000000F@ DC SVC RETURN PSW 001065 001888 AL3(RDCRD1) 112C SIOVR3 0017D0 SECST62000 1134 SIOVR4 **** 11F8 STATSV ***** 18BC SWITCH 1A44, 1AFA, 1802, 180A, 1856, 1C4A, 1C52 VARIABLES-DOUBLE WORD BOUNDARY-1074, 1D8C *********** 10E2 UN1ADR 1946 001700 CNOP 0,8 10E6 UNZADR 199A, 1866 WKAR3 DC XL8'00' WKAR4 DC XL8'00' 001700 0000000000000000 1000 XF8051 0017D8 0000000000000000 ************************* VARIABLES - WORD BOUNDARY-************ 0017E0 CNOP 0,4 NO ERROR DETECTED IN ABOVE ASSEMBLY TSTOR DC XL4'00'
ERNO DC XL4'00' 00000000 0017E0 0017F4 00000000 ***** VARIABLES. -NO BOUNDARY-************ 0017E8 000000000000000000 DRDAT DC 6XL14'00' 0017F1 0000000000 0000000000000000000 0017F6 17MAR66 15JUL65 ID F805-1 DATE 15JUL65 17MAR66 ID F805-1 PAGE 7A 124265 125643 PAGE EC 124265 125643

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		2821 SCAN/2540 READER/				•		2821 SCAN/2540 READER		•.•		
9	F8051	READER TRANSLATOR FLT -RO	OUTINE OVERLAY	04-			F8051 F	READER TRANSLATOR FLT -F	ROUTINE OV	ERLAY	04	
	0017FF	000000000					001970	91 40 F 004	RTO2	TM	SNSW, X*40*	SEE IF WANT UTILITY ROUTINE
	001804	0000000000 000000000000000000000000000			•		00197C 001980	47 80 F 988 •	KIUZ	8C	ALLOFF,RT03	,, BRCH IF NO
	00180D 001812	0000000000					001984	45 80 F 63E	•	BAL	GR8,SCPR00	BRCH TO UTILITY ROUTINE
	00181B	000000000							*	DATA	COLLECTION ROUTINE	
	001820 001829	00000000000					001988	41 10 F E58	# RTO3	LA	GR1, INDAT	INITIALIZE
	00182E	000000000000000000					00198C	41 20 F 7E8		LA	GR2,DRDAT	
	001837 00183C	0000000000 00000000000000000000	SENDAT DC	6XL14'00'			001990 001994	41 30 F 83C 41 40 F 890 °		LA LA	GR3,SENDAT GR4,CKRDAT	
	001845 00184A	0000000000 0000000000000000000					001998 00199A	1B 66 92 00 F 8E4		SR MVI	GR6,GR6 COMDAT,X*00*	
	001853	000000000	•	•			00199E	D2 5E F 8E5 F 8E4		MVC	COMDATE1(95),COMDAT	• • • • • • • • • • • • • • • • • • •
- 1	001858 001861	000000000000000000					0019A4 0019A8	45 AO F BE6 45 AO F C10	RT04	BAL BAL	GRA, DWR GRA, DRR	GO PERFORM DIAG WRITE TO READER GO READ RD BUFFER
į	001866	000000000000000000			·	•	0019AC	D7 03 F 7E0 F 7E0		ХC	TSTOR(4), TSTOR	COMBINE READ DATA & INVAL CARD CODE
	00186F 001874	0000000000 000000000000000000000					0019B2 0019B8	D2 00 F 7E0 2 000 91 08 3 000		MVC TM	TSTOR(1),0(GR2) 0(GR3),X*08*	77 77
	00187D	000000000					0019BC	47 80 F 9C4		вс	ALLOFF,RT05	and 👬
	001882 00188B	000000000000000000			•		0019C0 0019C4	92 80 F 7E1 58 B0 F 7E0	RT05	MVI L	TSTOR&1,X'80' GRB,TSTOR	• • • • • • • • • • • • • • • • • • •
	001890	00000000000000000	CKRDAT DC	6XL14°00°			001908	18 96		ĹR	GR9,GR6	•
	001899 00189E	0000000000 0000000000000000000					0019CA 0019CE	5C 80 F E48 1B 88		M SR	GR8,NINE GR8,GR8	••
7	0018A7	000000000			•		001900	5D 80 F E4C	•	D	GR8,EIGHT	
	0018AC 0018B5	000000000000000000		•			0019D4 0019D8	88 BO 8 000 50 BO F 7E0		SRL	GRB,O(GR8) GRB,TSTOR	••• •••
1	0018BA	000000000000000000					0019DC	41 99 F 8E4		LA	GR9,COMDAT(GR9)	••
4	0018C3 0018C8	0000000000 00000000000000000000			•	•	0019E0 0019E6	D6 03 9 000 F 7E0 41 60 6 001		OC LA	O(4,GR9),TSTOR GR6,1(GRO,GR6)	SEE IF END OF DATA COLLECTION
	001801	0000000000					0019EA	41 BO 0 051		LA	GRB,81(GRO,GRO)	•••
1.	0018D6 0018DF	000000000000000000 000000000		*			0019EE 0019F0	15 6B 47 80 F A08		CLR BC	GR6,GRB EQUAL,RT06	
	0018E4	00000000000000000	COMDAT DC	6XL16'00'			0019F4	41 10 1 002		LA LA	GR1,2(GR0,GR1) GR2,1(GR0,GR2)	UPDATE ADDRESSES FOR NEXT CHARACTER
	0018ED 0018F4	00000000000000 000000000000000000					0019F8 0019FC	41 20 2 001 41 30 3 001		LA	GR3,1(GR0,GR3)	• • • • • • • • • • • • • • • • • • •
- 1	0018FD	00000000000000				,	001A00 001A04	41 40 4 001 47 FO F 9A4		L A B C	GR4,1(GRO,GR4) ALWAYS,RTO4	GO COLLECT DATA FOR NEXT CHARACTER
	001904 00190D	00000000000000000 0000000000000					001A04	41 10 1 002	RT06	LA	GR1,2(GR0,GR1)	OU CULLECT DATA FOR NEXT CHARACTER
	001914 00191D	00000000000000000 00000000000000					001A0C	45 AO F BE6		BAL	GRA DWR	CLEAR VALIDITY CHECK
	001910	00000000000000000							*	ERRO	R DETECTION ROUTINE	
-3	00192D 001934	00000000000000			•		001A10	D5 5B F 8E4 F EFC	* RT10	CLC	COMDAT(92),OUTDAT	SEE IF GOT ANY ERRORS
	00193D	0000000000000					001A16	47 60 F A1E ·	KIIO	ВC	NEQUAL,RT20	,, BRCH IF YES
	001944 001945	00 C5D9D940E7E7E7E7	ERSW1 DC	X*00* C*ERR XXXX*		•	001A1A 001A1E	47 FO F C6C 41 10 0 054	RT20	BC LA	ALWAYS, LGOUT GR1,84(GR0, GR0)	GO SEE IF WANT LOG OUT INITIALIZE DATA RECORD COUNT
61	001943	6303034067616761	***	***	**********	*****	001A22	92 84 F 79C	. 1120	MVI	SCHNUM, X'84'	SET UP TO BYPASS ALL REMAINING OVLYS
	•			NE 04 PREFIX	**********	*	001A26 001A28	0A DB 0234		S V C DC	X'DB' AL2(SCPDAT-SECST)	LOAD FIRST DATA CARD IN BUFFER
4	00194E		CNOP	0,4	*		001A2A	45 BO F B8E		BAL	GRB + RDCRD	GO READ A DATA CARD
3	00194E 001950	07 00 04	BCR RTNO4 DC	0,0 XL1*04*	ROUTINE NUMBER		001A2E 001A32	41 90 F 234 92 00 F 944	PT06 PT061		GR9,SCPDAT ERSW1,X'00'	SET UP CURRENT DATA ADDRESS RESET ERR SW 1
14	001951	00	DC	XL1*00*	FLAGS		001A36	1B 22		SR	GR2,GR2	SET COUNT OF MASKS IN GR 2
- 4	001952	FFFE	DC	X'FFFE'	ADDRESS OF NEXT ROUTINE		001A38 001A3C	43 20 9 000 41 90 9 001	•	IC LA	GR2,0(GR0,GR9) GR9,1(GR0,GR9)	UPDATE CURRENT ADDR BY 1
	001954	95 84 F 79C	RTOO CLI	SCHNUM, X 84 F	SEE IF SHOULD RUN THIS F	ROUTINE	001A40	43 30 9 000	PT062	IC	GR3,0(GR0,GR9)	SET CC IN GR 3
H	001958 00195C	47 80 F 96E 95 00 F 79C	BC. CLI	EQUAL,RTO1 SCHNUM,X'00'	,, BRCH IF YES SEE IF SHLD RUN THIS ROL	JTINE	001A44 001A48	89 30 0 018 41 90 9 001	•	SLL La	GR3,24 GR9,1(GR0,GR9)	UPDATE CURRENT ADDR BY 1
	001960	47 80 F 96E	BC	EQUAL,RTO1	,, BRCH IF YES		001A4C	41 40 0 004		LA	GR4,4(GRO,GRO)	SET 4 IN GR 4
4	001964 00196A	D2 02 F 065 F FED 47 F0 F 714	RTOX MVC BC	SVRPSW&5(3),SCRAD ALWAYS,EXIT1	SET UP RETURN SVC PSW AL BYPASS DATA CARDS & ROUT		001A50 001A54	41 50 F 8E4 1B 88	PT063	SR.	GR5,COMDAT GR8,GR8	SET TEST DATA ADDR SET UP TEST ADDRESS
-4	. 00196E	91 02 F 004	RTO1 TM	SNSW, X * 02 *	SEE IF WANT TITLE PRINTO		001A56	43 80 9 000		IC	GR8,0(GR0,GR9)	
1	001972 001976	47 80 F 97C OA DO	SVC	ALLOFF,RTO2 X'DO'	,, BRCH IF NO PRINT TITLE		001A5A 001A5E	41 58 5 000 41 90 9 001		LA LA	GR5,0(GR8,GR5) GR9,1(GR0,GR9)	UPDATE CURRENT ADDR BY 1
4	001978	80	DC DC	X'80' X'0E'	,, NORMAL OUTPUT, ,, 14 CHARACTERS		001A62 001A66	43 60 9 000		IC LA	GR6,0(GR0,GR9) GR9,1(GR0,GR9)	SET UP MASK UPDATE CURRENT ADDR BY 1
	001979 00197A	0E F F58	DC	S(TITLE)	,, ADDRESS OF TITLE	•	001A6A	41 90 9 001 50 20 F 7D0		ST	GR2, WKAR3	CONVERT CC
1					,	,	The state of the s	•				
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or angeles and a second description of	* F8041 2821 SCAN/2540 READER/PUNCH F8051 READER TRANSLATOR FLT -ROUTINE OVERLAY 04-		* F8041 2821 SCAN/2540 READER/PUNCH F8051 READER TRANSLATOR FLT -ROUTINE OVERLAY 04-	
	001A6E 1B 22 SR GR2,GR2 001A70 41 70 0 080 LA GR7,128 001A74 8D 20 0 002 SLDL GR2,2 001A78 88 70 2 000 SRL GR7,0[GR2) 001A7C 49 70 F E52 CH GR7,THRT2 001A80 47 60 F A88 BC NEQUAL,PT0630 001A84 41 70 0 050 LA GR7,80 001A85 58 20 F 7D0 PT0630 L GR2,WKAR3 001A8C 44 60 F B7E EX GR6,TMA 001A90 44 70 F B82 EX GR7,BGDN	;; ;; ;; is cc 2 ;, brch if no set cc for any or all restore Gr 2 test data brch if error result	00186B 07 00186C F 945 00186E 47 F0 F C6C 001872 45 80 F 88E 001876 41 90 F 234 001874 47 F0 F 838 001878 91 00 5 000 001882 47 00 F 816 DC X*07* DC S(ERX) BC ALWAYS, LGOUT LA GR9, SCPDAT BC ALWAYS, PT069 BC ALWAYS, PT069 BC ALWAYS, PT069 BCON BC NA, PT068 ** ROUTINE TO PRINT FAULT	,, 7 CHARACTERS ,, MESSAGE ADDRESS GO SEE IF WANT LOG OUT READ A DATA CARD SET CURRENT ADDRESS CONTINUE TEST DATA
	001A94 92 FF F 944 MVI ERSW1,X*FF* 001A98 46 20 F AF8 BCT GR2,PT067 001A9C 46 40 F AA0 BCT GR4,*E4 001AA0 1E 94 ALR GR9,GR4 001AA2 1E 94 ALR GR9,GR4 001AA4 41 80 F 27A PT0631 LA GR8,SCPDATE70	TURN ON ERR SW 1 BRCH IF NOT END OF MASKS FOR THIS CC UPDATE CURRENT ADDRESS '' DOES THIS CARD CONTAIN NEXT DATA FLD	001B86 OA DO PRCRES SVC X*DO* 001B88 80	PRINT FAULT NO. ,, NORMAL OUTPUT ,, 8 CHARACTERS ,, MESSAGE ADDRESS RETURN TO MAIN PROGRAM
	001AA8 41 70 9 003 LA GR7,3(GR0,GR9) 001AAC 15 78 CLR GR7,GR8 001AAE 47 20 F ADA BC HIGH,PT065 001AB2 91 10 F 004 TM SNSW,X'10*	,, ,, BRCH IF NO PRINT CORRECT RESULTS	* ROUTINE TO READ DATA C ** ** ** ** ** ** ** ** ** ** ** ** *	CLEAR READ BUFFER
	OO1AB6 47 FO F AC4 BC ALWAYS.PTO64 OO1ABA D2 03 F 949 9 000 MVC ERRX&4(4),0(GI OO1AC0 45 BO F B86 BAL GRB,PRCRES OO1AC4 41 90 9 004 PTO64 LA GR9,4(GR0,GR9) OO1AC8 41 80 F 27A LA GR8,SCPDAT&70 OO1ACC 41 70 9 009 LA GR7,9(GR0,GR9) OO1AD0 15 78 CLR GR7,GR8	GO PRINT FAULT NO. UPDATE CURRENT ADDR BY 4 DOES THIS CARD CONTAIN NEXT DATA FLD ,,	001B98 0A DB SVC X*DB* 001B9A 0234 DC AL2(SCPDAT-SECST 001B9C 41 10 1 001 LA GR1,1(GR0,GR1) 001BA0 4E 10 F 7DO CVD GR1,WKAR3 001BA4 0A DD SVC X*DD* 001BA6 0002 DC AL2(2)	READ A DATA CARD READ BUFFER ADDRESS INCREASE CARD COUNT CONVERT CARD NO. TO PRINTABLE ''
and concerning a force on the will entered the sea	001AD2 47 20 F A2A BC HIGH,PT051 001AD6 47 F0 F A32 BC ALWAYS,PT061 001ADA 45 B0 F BBE PT065 BAL GRB,RDCRD 001ADE 91 10 F 004 TM SNSW,X*10* 001AE2 47 F0 F AF0 BC ALWAYS,PT066 001AE6 D2 03 F 949 F 234 MVC ERRXG4(4),SCPE 001AEC 45 B0 F BB6 BAL GRB,PRCRES	,, BRCH IF NO CONTINUE READ A DATA CARD PRINT CORRECT RESULTS ,, BRCH IF NO	001BA8 07D6 DC AL2(WKAR3&6-SECS 001BAA 07DB DC AL2(WKAR4-SECST) DC AL2(WKAR3&6-SECST) DC AL2(WKAR3&6-SECST) DC AL2(WKAR3&6-SECST) DC AL2(WKAR3&6-SECST) DC AL2(WKAR3&6-SECST) DC AL2(WKAR4-SECST) DC AL2(WKAR4	77 SEE IF DATA CARD SEQUENCE OK ,, BRCH IF NO RETURN TO MAIN PROGRAM SEE IF CORR NO. DATA CARDS READ ,,
. Seeman and many controllers on the	001AF0 41 90 F 238 PT066 LA GR9, SCPDAT&4 001AF4 47 F0 F A32 BC ALWAYS, PT061 001AF8 46 40 F A50 PT067 BCT GR4, PT063 001AFC 41 80 F 27A LA GR8, SCPDAT&70 001B00 41 70 9 008 LA GR7,8GR9, GR9 001B04 15 78 CLR GR7, GR8	SET CURRENT ADDRESS CONTINUE BRCH IF DID NOT USE 4 MASKS DOES THIS CARD CONTAIN NEXT DATA FLD 17	001BBE 47 80 F BD4 BC EQUAL, RDCRD2 001BC2 41 30 0 08C RDCRDX LA GR3,140(GR0,GR0) 001BC6 50 30 F 7E4 ST GR3,ERNO 001BCA 0A D0 SVC X*D0* 001BCC 44 DC X*44* 001BCD 07 DC X*44* 001BCE F FF0 DC S(ERR140)	,, BRCH IF YES SET UP ERROR NO. PROPRIED OF THE PROPRIED OF T
	001806 47 C0 F A40 8C L0EQ.PT062 00180A 45 B0 F B8E BAL GRB.RDCRD 00180E 41 90 F 234 LA GR9.SCPDAT 001812 47 F0 F A40 BC ALWAYS.PT062 001816 46 20 F AF8 PT068 BCT GR2.PT067 00181A 46 40 F B1E BCT GR4.*&4 00181E 1E 94 ALR GR9.GR4 001820 1E 94 ALR GR9.GR4	,, BRCH IF YES READ A DATA CARD SET CURRENT ADDRESS CONTINUE BRCH IF NOT LAST MASK UPDATE CURRENT ADDRESS	0018D0 47 F0 F C6C BC ALWAYS, LGOUT 0018D4 41 30 0 08D RDCRD2 LA GR3, 141(GR0, GR0) 0018D8 50 30 F 7E4 ST GR3, ERNO 0018DC 0A D0 SVC X'DO' 0018DE 44 DC X'44' 0018DF 07 DC X'07' 0018E0 F FF7 DC S(ERR141)	FRROR 141 - CAN NOT ISOLATE FAILURE ,, ERROR MESSAGE ,, 7 CHARACTERS ,, MESSAGE ADDRESS
and her dus	001820 1E 94 ALR GR9,GR4 . 001822 91 FF F 944 TM ERSW1, X*FF* 001826 47 10 F AA4 BC ALLON, PT0631 00182A 41 80 F 27A LA GR8, SCPDAΤ&70	SEE IF ERR SW 1 ON THE PROPERTY OF THE PROPERT	001BE2 47 F0 F C6C BC ALWAYS, LGOUT	GO SEE IF WANT LOG OUT GNOSTIC WRITE TO READER
and the second contract the second state of the second sec	00182E 41 70 9 003 LA GR7,3(GR0,GR9) 001832 15 78 CLR GR7,GR8 001834 47 20 F 872 BC HIGH,PT06A 001838 D2 02 F 949 9 001 PT069 MVC ERX&4(3),1(5) 00184 D2 02 F 7D5 9 001 XC WKAR3(8),WKAR3 001844 D2 02 F 7D5 F 7D5 PACK WKAR3&5(3),1(6) 001850 4F 80 F 7D0 CVB GR8,WKAR3	,, BRCH IF NO R9) MOVE ERROR NO. TO ERROR MESSAGE CONVERT ERR NO. TO BINARY & SAVE GR9) AR3&5(3) ,,	001BE6	
at new feet a season risks	001854 41 80 8 08C LA GR8,140(GR0,GI 001858 50 80 F 7E4 ST GR8,ERND 001850 4E 80 F 7D0 CVD GR8,WKAR3 001860 0A DD SVC X'DD' 001862 0002 DC AL2(2)	CONVERT ERROR NO. TO PRINTABLE	OO1COA 47 10 F BE6 OO1COE 07 FA ** ROUTINE TO READ READER	,, REPEAT WRITE IF YES RETURN TO MAIN PROGRAM
and the factor in	001862 0002 DC AL2(2) 001864 07D6 DC AL2(4KAR3&6-St 001866 0949 DC AL2(ERRX&4-SE 001868 0A DO SVC X*DO* 00186A 44 DC X*44*	ECST) ,,	001C10 92 00 F 234 DRR MVI SCPDAT,X*00* 001C14 D2 9E F 235 F 234 MVC SCPDAT&(159),SC 001C1A 41 00 F E38 LA GRO,RRDCCW	CLEAR READ FIELD
manuscriptoris confiction is not pro-	DATE 15JUL65 17MAR66 EC 124265 125643	ID F805-1 PAGE 9	DATE 15JUL65 17MAR66 EC 124265 125643	ID F805-1 PAGE 9Å

IBM MAINTENANCE DIAGNOSTIC PROGRAM	P/N 840260 PAGE 10	IBM MAINTENANCE DIAGNOSTIC PROGRAM	P/N 840260 PAGE 10A
* F8041 2821 SCAN/2540 READER/PUNCH F8051 READER TRANSLATOR FLT -ROUTINE OVERLAY 04-		* F8041 2821 SCAN/2540 READER/PUNCH F8051 READER TRANSLATOR FLT -ROUTINE OVERLAY 04-	
001C1E 50 00 F 048 ST GR0,CAW 001C22 92 02 F 14D MVI SIOSWS,X*02* 001C26 48 C0 F 0E2 LH GRC,UNIADR 001C2A 45 B0 F 2EB BAL GRB,SID 001C2E 91 01 F 14D TM SIOSWS,X*01* 001C32 47 10 F 944 BC ALLON,RT04 001C36 D2 00 2 000 F 234 MVC 0(1,GR2),SCPDAT 001C3C D2 00 3 000 F 1F7 ROUTINE TO PERFORM READER	RESET SIO SWITCHES -USE READER- LOAD READER ADDR IN GR 12 BRCH TO SIO ROUTINE SEE IF INTERVENTION REQ SW ON ,, RETRY WRITE & READ IF YES SAVE READ DATA SAVE READ SENSE DATA DIAGNOSTIC CHECK READ	O01DOE	CONVERT WRITE DATA TO HOLLARITH '', '', 'TE41 ', '', '',
001C42 41 00 F E40 DCRR LA GRO, CRDCCH 001C46 50 00 F 048 ST GRO, CAW 001C4A 92 02 F 14D MVI SIDSWS, X°02° 001C4E 92 00 F 234 MVI SCPDAT, X°00° 001C52 D2 9E F 235 F 234 MVC SCPDATE (159), SCPDAT (159), SCPDAT (159), SCPDAT (159), SCPDAT (159), SCPDAT (160), STD MVC (160), STD MVC (160), STD MVC (160), STD MVC (160), STD MVC (160), STD MVC (160), STD MVC (160), SCPDAT MV	LOAD ADDR OF DIAG CK RD CCW RESET SIO SWS -USE READER- CLEAR READ FIELD ,, BRCH TO SIO ROUTINE SEE IF INTERVENTION REQ SW ON ,, RETRY WRITE & READ IF YES SAVE CHECK READ DATA RETURN TO MAIN PROGRAM	001D34	
001C6C 91 20 F 004	;; ;; ;; initialize ;; initialize ;; ;; print blank line ;; clear print field	OOLD68	CONVERT READ DATA TO PRINTABLE CONVERT EXPECTED READ & SENSE DATA CONVERT READ SENSE DATA FOR PRINT CONVERT CHECK READ DATA FOR PRINT CONVERT CHECK READ DATA FOR PRINT CONVERT CHECK READ DATA FOR PRINT CONVERT CHECK READ DATA FOR PRINT CONVERT CHECK READ DATA FOR PRINT CONVERT CHECK READ DATA FOR PRINT CONVERT CHECK READ DATA FOR PRINT
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	IBM MAIN	TENANCE DIAGNOSTIC PROGR	AM	P/N PAGE	840260 11	IBM MAIN	TENANCE DIAGNOSTIC PROG	RAM	P/N 840260 PAGE 11A	and to return throated into April 1
-		2821 SCAN/2540 READER/ EADER TRANSLATOR FLT -RO		04-			2821 SCAN/2540 READER EADER TRANSLATOR FLT -R		*	
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IBM MAINTENANCE DIAGNOSTIC PROGRAM P/N 840260 IBM MAINTENANCE DIAGNOSTIC PROGRAM P/N 840260 PAGE 12 PAGE # F8041 2821 SCAN/2540 READER/PUNCH * F8041 2821 SCAN/2540 READER/PUNCH F8051 READER TRANSLATOR FLT -ROUTINE OVERLAY 04-F8051 READER TRANSLATOR FLT -ROUTINE OVERLAY 04-C5D9D940F1F4F1 ERR141 DC C'ERR 141' CAN NOT ISOLATE FAILURE POST ASSEMBLY DATA. REFERENCES TO DEFINED SYMBOLS. 1048 1C1E, 1C46 1BFA, 1040 1C10 1BE6 DRR DWR GRO 19A4, 19E6, 1AO8, 1A0C, 1C0A 19EA, 19EA, 1A1E, 1A1E, 19F4. 19F8. 19FC. 1A00 lalE, 1A38, 1A3C, 1A40, 1A48 1A4C, 1A4C, 1A56, 1A62, 1A66, 1AC4, 1ACC, 1B00, 1BC2, 1BD4, 1BD4, 1BF6, 1BFA, ICIA, 1C42, 1046, 1034, 1CE8, 1D46, 1CE8, 1CF4, 102C, 1D4A, 1D4A, 1D5A, 1D5A 1D68, 1D64, 1E02, 1E06, 1E0A, 1E0E, 1E12 19F4, 19F4, 1A08, 1A08, 1A1E, 1B9C, 1BAO, 1BBC, 1BEA, 1CEO, 1D08, 1E02 1E02 198C, 1A6A, GR2 19B2, 19F8, 1A36, 1A36, 1A38 1A6E, 1A74, 1A78, 1A88, 1A6E, 1A98 1816, 1888, 1BBC, 1C36, 1CE4, 1D74, 1E06 1990, 18C6, 19FC, 1A40, 1A44, 1988, 19FC, 1BD4, 18D8, 1C3C, 1CE8, 1D84, 1EOA 1EOA 1994, 1A00, 1A00, 1A4C, 1A9C, 1AAO, 1AA2 1AF8, 1B1A, 181E, 1820, 1C64, 1CEC, 1D88 1A50, 1A5A, 187E, 1CFO, 1DC6, 1DE2 1E12. 1998, 1E12 1998, GR6 1908, 19E6, 19E6, 19EE, 1A62 1CF4, 1A8C. 1E16 1A70, 1A78, 1A7C, 1ADO, 1800, 1804, 182E, 1832, 1D1C 1D40, 1D64, 1064, 1098 1D9C, 19CA, 1984, 19CE, 19CE, 19D0, 19D4, 1A54, 1AFC, 1A56, 1B04, 1A5A, 1AA4, 1AAC. 1AC8. 182A. 1832. 1850. 1854. 1854 1858, 1B5C, 1034, 1D38, 1D4A, 104E. 105A 1D82, 1082, 1D86, 1D8A, 1D9C, GR9 19DC, 19DC, 19EO, 1A2E, 1A38, 1A3C, 1A40, 1A48, 1A48, 1A56, 1A5E, 1A62, 1A66, 1AC4, 1466, 1AAO, 1AA2, 1448, 1 ABA 1ACC, 1AFO, 1BOO, 1BOE, 1AC4. 181E 182E. 1844, 1876, 1030, 1034 1B20. 1838. 1D68, 1D40, 1068, 1D84, 1D8E 19A8, 1AOC, 1COE, 1C6A 1904, 1904, 19D8, 19EA, 19EE, 1ADA, 1C2A, 1AEC, 1C58, 180A, 167E, 1872, 188C, 1886, 1088, 1090, 1082, 1046, 1D2C. 1D46, 104E, 105E, 108E, 1092 1BE6, 1C26 GRD GRE GRF LOW 1050 SIO 12E8 1CO2, 1C2A, 1C58 187E BCON BUSY DCRR 1882 1A90 1042 17E4 ERNO 1858, 18C6, 18D8 1945 ERRX 1ABA, 1AE6, 1B38, 1866, 186C, 188A DATE 15JUL65 17MAR66 ID F805-1 DATE 15JUL65 17MAR66 ID F805-1 125643 PAGE 124265 12 PAGE 12A W.L.D.

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F804 2821 SCAN/2540 READER/PUNCH F805 BUFFER ADDR FLT -ROUTINE OVERLAY 3-

			.AAQFMA Y99—8Y 9	FHLHNAFDHAAA&A7SAI8U QZ808YQ80QYY Q 8Z- Z 9 Z 0 9 0	OCAA7SAAAAAANTGABH 9QY 8Z 9ZQYR98ZYQ9 9 09 Z	AAABAJJAAAAA80510052 ZQQ9ZYY9ZQQ9 99 99 ZZ
		Y9	.AAAA Y9Z 9 9	GO9MAAABEJCWNL8UFDG- Z OZQQ9ZYQ 8 QQZ 99 Z ZZ ,	BOGODUAAADBD7DBCB4EA QBZ QBZQYR-O Q8Q99ZQ Z9 Z 99 99 0	CFAA24BA9DLS80510053 QYZQ 9-Y Z89 Z 9 9
BTXT. 9			AACJAA Y9ZYQY 9 9 9	AAAACAAAIAAQAAAAA.AD ZQQ9ZQQYOQY9ZQQ9Z Y9 Z 9 Z9 9	A&BULHCAAAAH&AAAAAC- Z 80ZYQYZR YZQQ9Z 9 9 9	AAAAA&J70LS80510054 QYZQQ9 Y -89 9 9 9
		Y9	• AAAOAA Y9Z&YY 9 —9	EJABHOJAAOFBG-BHAOAE YYY90&YYB&QRZ QOZ&Y 99 -99 -Z Z -9	HJ70D-C6D0CBBG9DFJB8 RY -Z Q8Z&Q0-Q ZZYQ 9 Z -Z Z 9Z	F-8JODODAA2280510055 Z QY8-8-ZY 8 Z 9 9
BTXT 9			• AAAOAC • Y9Z&Q9 • -	NHGJBBAAODGOBDKC9AAA 9RZYQQ-Q 9Z Q 9 8QY 0 9Z9 9 Z 9	EACFAAADAA22AOAANHGJ ZQQOZQQ9ZY 8Z&Q89RZY OZ - 9 0 9	BSG0B2EACFAA80510056 Q8Z Q9ZQQY-Q Z9 Z OZ 9
BTXT 9			• AAODGO * Y9 92 9	BOKC9A24EACFAA28G0B2 Q 9 8 9ZQQOZQ 9Z Q9 Z OZ Z	F.B&AAZZAOAHNHGOB.EA Z Q ZY 8Z&Q99RZ&Q ZQ Z - O Z O	CFAA24G0B.FJ80510057 QYZQ 9Z Q ZY Z Z 9
BTXT 9			AABBF. Y9Q Z 9 Z	COUDODAG9DGABMAA22AO Q88-8Q ZZQQOZY 8Z& Z99 9 Z 9Z -	ACNHGJCBKB9AAAPG7070 Q99RZYQR 9 8Q9 9 0 9Z0	K87NAA2S7N7N80510058 9 Q9 9
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BTXT 9			AACMAA Y9Q ZQ 9 Z Z	AD&A7UBODGGGGODUAAAE YY Q 8-Z9Q Z Q8ZQYY 9 Z 9 Z Z Z9	&A7UBODGG7GODUHOOWKA Q 8-Z9Q Z Q8Z& 9 Z 9 Z Z	24AAKE2624AA80510061 9QY Q 9 9ZY 99 9
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BTXT 9			• AA24GB Y9 99Q 9 Z	AJODGAFMB-24KG2524EA -Y 9ZYQ8- 9 Z 9 9ZQ 9 Z9 0	DQBOAAGDEADDB.24KG25 Q 8-Y8QZZQQ - 9 Z 9 Z 9 Z OZ	24KB2EGPEADB80510064 9 8 8QYZQQQ 9 Z 0Z0
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BTXT.ANOA8AA2E2E 9 Y8 Y9 Y9 8 R 99 9 9	GAEDBM24BOAH24AAABAJ ZYQQ-8 98-YZ 9ZQQ9ZY ZZ 9 99 9	JAAAAAAAA&&AF-DFBB Y9ZQQ9Z 9Z 9Z QQ8Q 9 ZZ ZZ99	A.ODGAFYEA668051007 - 9ZYQ9ZY 8 Z 9
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BTXT.APHA8AAFG7D 9	ABBAAAJ-8JKAHFDBJAMD Y9990YY 9Y9Q90Z99QOR 9 9 9 9	AJAHDBAYJAUQDWTAD4AA Qyqzzo89yr89899r yz z99 9 9	JOHD2NAIESKA80510070 Y-0R98Q0Z9 8 9 99 9
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PAGE 19 H7CAAA7.HACAALJAHB.O 988QYY9. ZY 9Q8Y998 0337CDOA/BGJQBC6BADB HD3B/BD.J.DQBWB.AWJO 9799998 9 89999 997

IBM MAINTENANCE DIAGNOSTIC PROGRAM F804 2821 SCAN/2540 READER/PUNCH F805 BUFFER ADDR FLT -ROUTINE OVERLAY 3-CKA6BADBAABASJC.7.02 93E7YDVJ/AGJOHAA.J.O 987897980289978 8 88999Y8Y9Y&ZYQ 9 9 9 9 9 99 29 99 9 99 99 9 9 Z99.9 FDA.7.HAKA3AJLAADAJD AA.DHH6.AGA.JAAAA029 8QY 9 ZY8Y YY8Q893YQ 8Q 9Z99 YZY YYYYY 9 9999 997 AK.AAAAAAO298H73AVJD .X.7QBTAAJYD0301EGUA Y9 YYYYYY 98999Y8 9 899902799 9890 9 999999 9 9 9 OSDAAAAAA0303A7CB/AX .7.GHAAJLA6AD6BADAAB YYYYYY93 Q8898Y9 9 QZYYY8Q8Q889Y98Q8 999999 99 9 Z 99999999 9 999 FOAHHAA.KAALJB.AAAAO 306P4UJ/AX.U.G7.J.5A 9 99ZYQ 8YQ8Y8 YYYY 9887879 8 79 9 90 9 9 2999 9999 9999 9 9 4QAAJ2AAA0307A4BDAA5 AKAOLAMHGA/DOUJAAAAA 8998Y99YY 88999Q9 08Y 80899989&8YYYYYY 9 9 99 99 9 99 999 9 9999999 AKALJAAAA0311EGUAJ.L A.AAAAAAAAAAO312A4BD Q 9Y8QYYYYYY 8899 Y8Y8YYYY 98909 8 99 999999 9 999999999 FDAHU_HAA_AJ_6AAAAAO 315FDBBAHX AAOJAAAAA 9Y898 ZYQ Q9 9YYYYY 9799799 098907777 9 9 9 Z 9999 9 9 Z 99999 FG2D/B/AX.07.AA6BADC ADBATBSJAC.TAAAAA032 8Y9998Y9 &9 Q989899 Y989999YY8 89YYYY 9 Z 9 9 9 999 9 9999 JLADSAV.3AAA0326LGAA 0323C7BAAAGJ7.CA.J.L 88ZQYY9Y9 9Q 9 8 Y8QQ898 9QYY 9Y8Y 99 99 9 9 99929 9 999 CADBATBSJAC.2DAAAA03 27JG/D/BGJD.DJAU.5AQ 9Y989999YY8 99QQYY 978999978 8898 909 999 Z999 99 99 9 9 0328FDW.I/BD.OBAWBVAA AAA0329H76AAA7.HADA. 989YYY9 ZY8Q 9797998 99799877 9 8989 YYY CWBGAWJAAATB/.VAJDAX AOAAAAA0332DDFB/BGJJ 9999994944999 844909 YYYYG8Q 879999978

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IBM MAINTENANCE DIAGNOSTIC PROGRAM	P/N PAGE	840260 20	IBM MAINTENANCE DIAGNOSTIC PROGRAM		P/N 840260 PAGE 20A
F804 2821 SCAN/2540 READER/PUNCH F805 BUFFER ADDR FLT -ROUTINE OVERLAY 3-			F804 2821 SCAN/2540 READER/PUNCH F805 BUFFER ADDR FLT -ROUTINE OVERLAY 3-		
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AAHB.AAAAO353FOVA6BG AADABAVDAAAAO354E0WA Q998 YYYY. 9&99899 9Y9Y8999YYYY 9&89 Z 9 9999 9 9 99 9	JA6BADABAAAAAAA0355E		06A7HAAAA0438FDWJ/BD •QBAWBVAAAAA0439D77A 9Y89YYYY 9Y9Y998 99Q998YYYYY 888Y 9 9999 9 9 Z 9 9999 999	AA/AX-D5A6BTAADDBATB YY8Y9 Y89899QY988999 9 9 99 99 99	SJC.0443180510208 9Y8 99
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0388FG3A/AX.7.3A.5AL JLA06A6BADBAOSJAJAAA 8Q9Y8Y9 9 9Q 9Q8 Y8Q&8Q89Y989 9Y8YYYY 9Z 9 9 99 999 9 9 9 9999	A0390C7AJVJ/AX.07.6A 6BAD180510197 Y 888Y9Y8Y9 9 8Q 89Y9 9 99 99 99 99 99				
ABASJXDAA0392G4B.AAH ALJOLAAHA.AA0396E4AJ Q899Y89YY 988 YYZ Y8YE8Q998 YY 98YY Z9 99 99 99 99 99 99	HAAAKAOUJAAAAAA0398A 3AJAAJ.LA180510198 ΖΥ9Q8ΥΕ9ΥΥΥΥΥΥ 8 98Υ9Q9 8Q 99 999999 9 99 99	3			
0UJ_86.6H02AAAAAAAA 99MFXH/AX.7.GAA5ALAM 9Y 99 99E99YYYYYY 98898Y9 9 Q9Q9Q8Q8 9 999999 99 9 Z 9 9999	H06A6BGAADDAJBASJPHG BHM.AJ2A180510199 9&8Q8999Y9Y8Y899Y898 Z98 8Y99 999 9 9999 99 9 9				
0400JDCD/AX.U.D7.HAA ALJOLA6A6BAHCB.ADBAS 9Q898Y9 8 Q9 ZY9 Q8Y 8Q8Q8999 8 Y9899 Z 9 9 Z 999 99999 9 9 9	JOAJAAAAAO402A3AJAA J.LA180510200 YEBYYYYYYY 898Y9Q 9 8Q 9 9999999 9 99 99)			
0UJ-A6-6HAZAAAAAAAA 03EDVA/AX.U-D7-5A6A6 9Y 99 99Y9YYYYY 8Q9Q8Y9 8 Q9 9Q8Q8 9 9 999999 9Z 99 9 Z 9999	BGADBAKASJOAJAAAAAAO 406180510201 98Y9898Q9Y&8YYYYYYY 99 9 99 9999999				
EGWBAHD.DAO/.AAAAAAO 407BAB.DAAAAAO412D3Q 9799798 ZY89 YYYYYY 9Q9 9QYYYY 8 9 9 9 9 9 99999 7 99999 9	AGJU.5AGQ8KAMHBHAGAH AUA/D0414180510202 99Y8 9Q8998Y8999Y999 Y8Q89 99 99 9 9 9 999	2			
E3JAD.U.5ACQBKAWBMHO BHGAUAQAOK.AAAAAAO41 8 9Y8 8 9Q9998Y99898 99998Q989 YYYYYY 9 9 9 9 9 999999	5A7BAVJ/AX-7U-5AFA5A C6BADBAKA180510203 Q88Q9Y8Y9 88 9Q8989 989Y9898Q 99 9 99 99 9 9 9 9 9 9	3			
4TBKBSJC.0418AGAHAHX .7.CHAAA7DAJAADAAAA 899899Y8 8Y89Y99 9 ZYQ999YYY89YYYYY 9 9 99 999 9 Z 999 99999	A0419AGVDAHX.7.AAABB ADGA180510204 Y 8Y99Y99 9 YQ999 8999 9 99 9 9Z				
AVAAAAAAAAO420DDDAAHD .WB0421J43.JJ/AA.3J. Y99YYYYYY 9YZYY98 99 989 8Y8YQ 99 9 99999 9 9 9 999 9	5ALJLA05A6A6BADGBATB SJBA180510205 9Q8Y8Q 898Q89Y988999 9YZQ 99999 9 999 9 9 9 9	5			
DATE 15JUL65 17MAR66 EC 124265 125643	ID PAGE	F805-1 E 20	DATE 15 UL 65 17 MAR 66 EC 124265 125643	ST PAGE	ID F805-1 PAGE 20A





IBM MAINTENANCE DIAGNOSTIC PROGRAM P/N 840474 IBM MAINTENANCE DIAGNOSTIC PROGRAM P/N 840474 PAGE PAGE * F8041 2821 SCAN/2540 READER/PUNCH 2821 SCAN/2540 READER/PUNCH * F8041 PUNCH TRANSLATOR FLT -ROUTINE OVERLAY 05-PUNCH TRANSLATOR FLT -ROUTINE OVERLAY 05-F8060' 001708 0000000000000000 WKAR4 DC XL8'00' VARIABLES - WORD BOUNDARY 8060 TITLE F8060 PUNCH TRANSLATOR FLT -ROUTINE OVERLAY 05-********************** 0017E0 CNOP 0,4 00000000 ERNO DC XL4'00' 0017E0 MODIFICATIONS ************************ 1. PUNCH TRANSLATOR FLT -ROUTINE OVERLAY 05-THIS IS A NEW ADDITION TO THIS PROGRAM PACKAGE. VARIABLES - NO BOUNDARY *********** 000102030405060708 0017E4 X 000102030405060708090A1011191A20 ENGINEERING CHANGE PREREQUISITES INDAT DC 09041011191420 0017ED 1. HARDWARE 2122292A3040414248 X 12122292A3040414248494A5051585960 0017F4 2821 CONTROL UNIT WITH 2540 ATTACHMENT AT MINIMUM 494A5051585960 0017FD E.C. LEVEL 124265 616263686A6B6E7072 X'616263686A6B6E7072787A8081828889' 001804 2. PROGRAM 00180D 787A8081828889 NONE 8B91A1A9COC1C2C8CA DC 001814 DOD2D8DAE0E1E2 *************************** 001810 E3E8E9EAEBF0FA DC X * E3E8E9EAEBFOFA * XF8060 START 4096 001824 00182B WRSNS DS 001000 USING *,15 WRCKRD DS **CL71** USING #84096.10 ****************** 0018B9 RDAT DS CL71 RDSNS DS C1.71 FOURTH OVERLAY - ROUTINE 05 001900 RDCKRD DS **CL71** 001947 ************ 00198E COMDAT DS CL 90 RESIDENT LABELS ADDRESSED BY OVERLAYS ERSW1 DC X * 00 * *********************** C5D9D940E7E7E7E7E7 ERRX DC C*ERR XXXXX 001000 SECST FOU ************************* SECST&4 EQU 001004 SNSW ROUTINE 05 PREFIX SECST&64 001040 EQU CSW SECST&72 001048 CNOP 0,4 0019F2 UNIT1 EQU 0010E0 SECST&224 0019F2 07:00 BCR SECST&226 0010E2 UNIADR EQU XL1'05' RTN05 DC ROUTINE NUMBER 0019F4 05 SECST&228 UNIT2 FQU 0010F4 XL1 '00' UNZADR EQU 0019F5 00 FLAGS 0010E6 SECST&230 LAST ROUTINE FFFF DC 0019F6 SIOVR3 EQU 00112C SECST&300 001134 SIOVR4 EQU SECST&308 SCHNUM, X 858 SEE IE SHOULD RUN THIS ROUTINE 0019F8 95 85 F 79C RT00 CLI 00114D SIOSW5 EQU SECST8333 EQUAL,RT01 ,, BRCH IF YES
SEE IF SHOULD RUN THIS ROUTINE 47 80 F A12 95 00 F 79C 0019FC SECST8504 0011F8 STATSV FOU SCHNUM, X . 00 . CLI 0011FA CSWAG EQU SECST&506 001A00 ,, BRCH IF YES SET UP RETURN SVC PSW ADDR 47 80 F A12 EQUAL, RT01 001A04 001231 UAPU EQU SECST&561 MVC SVRPSW&5(3), SCRAD 80A100 D2 02 F 065 F E70 RTOX CSWSAV EQU SECST&300 001120 BYPASS DATA CARDS ROUTINE EXIT SEE IF WANT TITLE PRINTOUT 47 FO F 714 ALWAYS, EXIT1 00114C CAWKEY EQU SECSTE332 001A12 91 02 F 004 RT01 TM SNSW, X . 02 . 0011F7 SENSE EQU SECST&503 .. BRCH IF NO ALLOFF, RT02 SECST&557 001A16 47 80 F A20 BC 001220 UARD FQU PRINT TITLE SVC X . DO. OA DO EXIT EQU SECST&1772 001414 0016EC X . 80 ,, NORMAL OUTPUT DC 001A1C 80 001714 EXIT1 EQU SECST&1812 ,, 15 CHARACTERS DC X OF 001A1D EXIT2 EQU SECST&1820 ,, ADDRESS OF TITLE
SEE IF WANT UTILITY ROUTINE F E73 S(TITLE) 001A1E 001060 SVRPSW EQU SECST&96 91 40 F 004 RT02 TM SNSW, X 40 001A20 0016E6 EXITBY EQU SECST81766 ALLOFF, RT03 001424 47 80 F A2C ВC .. BRCH IF NO SECST&1948 001796 SCHNUM FOU BRCH TO UTILITY ROUTINE GR8, SCPROO BAL 45 80 F 63E 001234 SCPDAT EQU SECST&564 001A28 00163E SCPROO EQU SECST&1598 DATA COLLECTION ROUTINE 0012E8 SECST&744 000048 HCAW EQU 72 INITIALIZE 001A2C 41 10 F 7E4 RT03 LA GR1, INDAT 000040 HCSW EQU 001A30 41 20 F 8B9 GR2, RDAT SECSTE514 MESS1 EQU 001202 GR3.COMDAT SECSTE333 001A34 41 30 F 98E LA SIDSWS FOU 00114D GR6,GR6 18 66 001438 92 00 F 98E COMDAT, X'00' 001A3A 001015 ORG · SECST&21 D2 58 F 98F F 98E COMDATE1(89), COMDAT 001A3E 0019F4 AL3(RTNO5) INITIAL PSW STARTING ADDR FOR RTN 05 001015 GO WRITE PUNCH BUFFER 45 AO F D18 RT04 GRA, DWR 001060 DRG SECSTE96 SAVE WRITE CHECK READ DATA 142(1,GR1),SCPDAT 001A48 D2 00 1 08E F 234 MVC X * 010000000F * SVC RETURN PSW 001060 010000000F DC GO READ PUNCH BUFFER 45 AO F D4A D2 OO 2 O8E F 234 GRA.PRD AL3(RDCRD1) 001A4E BAL 001065 001DCA 142(1,GR2),SCPDAT SAVE READ CHECK READ DATA MVC 001452 0017D0 SECST&2000 COMBINE INV CD CODE READ DATA D7 07 F 700 F 700 WKAR3(8), WKAR3 ХC 001A58 ********************* D7 07 F 7D8 F 7D8 WKAR4(8), WKAR4 001A5E VARIABLES - DOUBLE WORD BOUNDARY ,, D2 00 F 7D8 2 000 MVC WKAR4(1),0(GR2) 001 A64 ************* 7 7 58 BO F 7D8 GRB, WKAR4 CNOP 0.8 001A6A 001700 GRO, GRO 001A6E 1B 00 00000000000000000 WKAR3 DC XL8'00' 0017D0 ID F806-0 PAGE 1A DATE 17MAR66 ID F806-0 PAGE 1 DATE 17MAR66 125643 EC 125643

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IBM MAINTENANCE DIAGNOSTIC PROGRAM	P/N 840474 PAGE 3	18M MAINTENANCE DIAGNOSTIC PROGRAM	P/N 840474 PAGE 3A
* F8041 2821 SCAN/2540 READER/PUNCH F8060 PUNCH TRANSLATOR FLT -ROUTINE OVERLAY 05-		* F8041 2821 SCAN/2540 READER/PUNCH F8060 PUNCH TRANSLATOR FLT -ROUTINE OVERLAY 05-	
TRANSLATOR FLT	INITIALIZE LOG OUT ROUTINE CLEAR PRINT FIELD SET UP TO PRINT WRITE DATA TO SECST) GRECST) RECST G	# ROUTINE 1 **	CO WRITE PUNCH BUFFER C,UNZADR CDAT(1),O(GR1) DATEL(79),SCPDAT C,PWRCCW COAD ADDR OF PUNCH WRITE CCW COAD ADDR OF PUNCH ADDR— COAD ADDR OF PUNCH ADDR— COAD ADDR OF PUNCH READ COAD ADDR OF PUNCH READ COAD ADDR OF PUNCH READ COAD ADDR OF PUNCH READ COAD ADDR OF PUNCH READ CCW COAD ADDR OF PUNCH READ CCW COAD ADDR OF PUNCH READ CCW COAD ADDR OF PUNCH READ IF YES COAD ADDR OF PUNCH READ CCW COAD ADDR OF COAD ADDR COAD ADDR OF COAD ADDR COAD ADDR OF DIAG CK READ COAC COAD ADDR OF DIAG CK READ COAD ADDR OF DIAG CK RD CCW COAD AD
001CAA 07D0 001CAC 0243 001CAC 0243 001CAC 0243 001CAC 02 00 F 7D0 2 08E MVC WKAR3(1),14 001CB4 0A DD 001CB6 0001 00C AL2(1) 001CBB 07D0 001CBA 0246 001CBC 92 5C F 235 001CCO D5 01 F 237 F 240 001CCC 47 60 F CEE 001CCA 95 00 1 047 001CDE 47 60 F CEE 001CDA 95 00 2 047 001CDE 47 60 F CEE 001CDA 95 00 2 047 001CDE 47 60 F CEE 001CCA 95 00 2 08E 001CDA 95 00 20 20 20 20 20 20 20 20 20 20 20 20	SECST) 115-SECST) 122(GR2) SET UP TO PRINT READ CK RD DATA 17 SECST) 17 SECST) 18 SET ERROR FLAG SET IF READ DATA OK JTA 17 SEE IF ANY WRITE SENSE DATA 17 SEE IF ANY WRITE CK READ DATA 17 SEE IF ANY READ SENSE DATA 17 SEE IF ANY READ CK READ DATA 17 SEE IF ANY READ CK READ DATA 17 SEE IF ANY READ CK READ DATA 17 SEE IF ANY READ CK READ DATA 17 SEE IF ANY READ CK READ DATA 17 SEE IF ANY READ CK READ DATA 18 19 100' SEE IF ANY READ CK READ DATA 17 SEE IF END OF LOG OUT 17 SEE IF END OF LOG OUT 17 18 SEE IF WANT UTILITY ROUTINE 17 BRCH IF NO BRCH TO UTILITY ROUTINE ROUTINE EXIT	001D8C D2 4E F 235 F 234 001D92 45 B0 F 2E8 001D96 91 01 F 14D TM SIG 001D9A 47 10 F A44 001D9E 07 FA 001DA0 92 00 F 234 RDCRD MVI SCF 001DA4 D2 4E F 235 F 234 001DAA 0A DB 001DAC 0234 001DAC 0234 001DAE 41 10 1 001 LA GRI 001DB2 4E 10 F 7D0 CVD GRI 001DB8 0002 001DB8 0002 001DB8 0002 001DBC 07D8 001DBC 07D8 001DC4 47 60 F DD4 001DC5 07 FB 001DC4 47 60 F DD4 001DC6 15 21 001DD0 47 80 F DE6 001DD0 47 80 F DE6 001DD0 47 80 F DE6 001DD0 47 80 F DE6 001DD0 47 80 F DE6 001DD0 47 80 F DE6 001DD0 47 80 F DE6 001DD0 47 80 F DE6 001DD0 47 80 F DE6 001DD0 47 80 F DE6 001DD0 47 80 F DE6 001DD0 57 C SC SC SC SC SC SC SC SC SC SC SC SC S	PDATE(1(79), SCPDAT P, SIO SSWS, X'01' SEE IF INTERVENTION REQ SW ON TO READ DATA CARDS PDAT, X'00' PDATE(1(79), SCPDAT OB' PDATE(1(79), SCPDAT OB' PDATE(1(79), SCPDAT OB' PDATE(1(79), SCPDAT OB' PDATE(1(79), SCPDAT OB' PDATE(1(79), SCPDAT OB' PDATE(1(79), SCPDAT OB' PDATE(1(79), SCPDAT OB' PDATE(1(79), SCPDAT OB' PDATE(1(79), SCPDAT OB' PDATE(1(79), SCPDAT OB' PDATE(1(79), SCPDAT OB' PREAD A DATA CARD READ ADATA FIELD ADDRESS INCREASE CARD COUNT CONVERT CARD NO TO PRINTABLE OB' PDATE(1(79), SCPDATE(7) ON OF TO PRINTABLE OB' PREAD A DATA CARD OB PRINTABLE OB OB OB OB OB OB OB OB OB OB OB OB OB O
EC 125643	PAGE 3	EC 125643	PAGE 3A

F8060 PUNCH TRANSLATOR FLT -ROUTINE OVERLAY 05- POST ASSEMBLY DATA. REFERENCES TO DEFINED SYMBOLS. 1 O NA 1C42	P/N 840474 Page 5	4 1 4 1 4 1 4 1 4 1	SCAN/2540 READER RANSLATOR FLT	R/PUNCH ROUTINE OVERL 9FC, 1A04	AY 05-					P/N PAGE	840474 5A
1 0 NA 1C42		F8060 PUNCH TR 4 1 4 1 4 1 4 1 4 1 4 1 4 1	RANSLATOR FLT - 19F8 RT00 1A12 RT01 1 1A20 RT02 1 1A2C RT03 1	9FC, 1A04	AY 05-						
REFERENCES TO DEFINED SYMBOLS. 1		4 1 4 1 4 1 4 1 4 1	1A12 RT01 1 1A20 RT02 1 1A2C RT03 1	.A16							
1 0 NA 1C42		4 1 4 1 4 1	1A2C RT03 1								
				.A24 .ABC, 1D68,	1D9A				•		
		6 1	1A08 RTOX 1 1AC0 RT10 1	.A7C .D14 .ABO							
1 1048 CAW 1D2C, 1D52, 1D80 1 1040 CSW 4 1D7C DCK 1D46, 1D78		1 1	1004 SNSW 1 1.231 UAPU	AC6 A12, 1A20,	1860, 188C	, 1C4E, 10	08				
4 1D18 DWR 1A44, 1D3C 1 0 GR0 1A6E, 1A6E, 1A70, 1AAA, 1AB4, 1AB8, 1AD4 1AD4, 1AE6, 1AEA, 1AEE, 1AF6, 1AFA, 1AFA 1B04, 1B0C, 1B10, 1B14, 1B56, 1B72, 1B7A 1BAE, 1BDC, 1C02, 1CF8, 1CFC, 1D28, 1D2C 1D4E, 1D52, 1D7C, 1D80, 1DAE, 1DD4, 1DD4		1 1 1 1	5 ANYON 8 AVAIL	BD4, 1D3C,	1D68, 1D9A			-			
1 1 GR1 1A2C, 1A48, 1AAA, 1AAA, 1AAE, 1AD4, 1C56 1 1 GR1 1A2C, 1A48, 1AAA, 1AAA, 1CD2, 1CF8, 1CF8 1C68, 1C76, 1C84, 1CCA, 1CD2, 1CF8, 1CF8 1D00, 1D1C, 1D40, 1DAE, 1DB2, 1DCE 1 2 GR2 1A30, 1A52, 1A64, 1A78, 1A84, 1A84, 1AE4		1 1 1 4 1 1 1 1	11FA CSWAG 4 CSWST 1E14 EIGHT 1 8 EQUAL 1 19E8 ERSW1 1	LA90 L9FC, 1A04, LAEO, 1B42,	1ABO, 1DDO 1BDO					•	
1AE4, 1AE6, 1B18, 1B1C, 1B1C, 1B22, 1B26 1B36, 1B46, 1BC4, 1C5A, 1C92, 1CAO, 1CAE 1CDA, 1CE2, 1CFC, 1CFC, 1D6C, 1D72, 1DCA 1DCE 1 3 GR3 1A34, 1AEE, 1AF2, 1DD4, 1DD8, 1DE6, 1DEA		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	171C EXIT2 1 2 GZERO 17E4 INDAT 1	LAOE LE70 LA2C, 1C56 LADO, 1C2E,	1DE2, 1DF4						
1 4 GR4 1AFA, 1B4A, 1B4E, 1B50, 1BA6, 1BC8, 1BCC 1BCE 1 5 GR5 1AFE, 1B08, 1B08, 1C3E		1 1	1202 MESS1 4 MIXED 7 NZERO								
1 6 GR6 1A38, 1A38, 1A88, 1AB8, 1AB8, 1B10, 1B3A 1 7 GR7 1B1E, 1B26, 1B2A, 1B32, 1B3E, 1B56, 1B5A 1B7A, 1B7E, 1BAE, 1BB2, 1BDC, 1BEO 1 8 GR8 1A28, 1A8A, 1A8E, 1A8E, 1A90, 1A94, 1B02 1B02, 1B04, 1B08, 1B52, 1B5A, 1B76, 1B7E		4 4 4 4	1AD8 PT051 1 1AE0 PT061 1 1AEE PT062 1 1AFE PT063 1 1B72 PT064 1	1880 1884, 18A2 1884, 18C0 18A6 1864 185C							
1BAA, 1BB2, 1BD8, 1BE0, 1BFE, 1CO2, 1CO2 1CO6, 1COA, 1D10 1 9 GR9 1A88, 1A9C, 1A9C, 1AA0, 1ADC, 1AE6, 1AEA 1AEA, 1AEE, 1AF6, 1AF6, 1BO4, 1BOC, 1BOC 1B10, 1B14, 1B14, 1B4E, 1B50, 1B56, 1B68 1B72, 1B72, 1B7A, 1B9E, 1BAE, 1BBC, 1BCC 1BCE, 1BDC, 1BE6, 1BF2, 1C36, 1CF4, 1D00		4 4 4 6 4	189E PT066 1 18A6 PT067 1 18C4 PT068 1 18E6 PT069 1 1C32 PT06A 1	1890 1894, 18C4 1C42 1C3A 1BE2 1C20							
1 A GRA 1A44, 1A4E, 1D9E 1 B GRB 1A6A, 1A70, 1A74, 1A84, 1A94, 1A98, 1AA6 1AAE, 1AD8, 1B6E, 1B88, 1B9A, 1BB8, 1C32 1C4C, 1D34, 1D60, 1D92, 1DC8		4 71 1 3	10A0 RDCRD 1 1900 RDSNS 19F4 RTN05 1 1E70 SCRAD 1	1AD8, 1B88, 1015 1A08	1888, 1032	, 1000, 1	200 1000				
1		The state of the s	1 1 1 1 1 11F7 SENSE 1	1000, 1000, 1000, 1000, 1000, 1000, 1000, 1018, 1080, 1082, 10AC, 1088, 1D40, 1D72	1000, 1000 1000, 1000 1000, 1000 1068, 1012 108E, 1090	, 1000	000, 1000 000, 1000 000, 1000 072, 1074 09E, 10AA				
4 1C42 BCON 1B3E 1 2 BUSY 4 17E0 ERNO 1C06, 1DD8, 1DEA 9 19E9 ERRX 1B68, 1B94, 1BE6, 1C16, 1C1C, 1C24, 1C2C 1C4A		15 1 1	1673 TITLE 1 1060 UNIT1 1064 UNIT2 17D0 WKAR3 1	182A 1A1E 1A58, 1A58,	1474, 1480	, 1484, 1	498, 1 440				
1 16EC EXIT 1 48 HCAW 1 40 HCSW 1 2 HIGH 1B5C, 1B80, 1BE2 1 78 HION 1 C LOEQ 1BB4 4 1E10 NINE 1A8A 4 1ADC PT06		71	17D8 WKAR4 1 182B WRSNS 8 8 ALLOFF	1BFE, 1COA, 1C84, 1C8E, 1CB8, 1DB2, 1A5E, 1A5E, 1DBE 1AA6, 1CF4 1A16, 1A24,	1C12, 1C68 1C92, 1C90 1DBA 1A64, 1A6A	, 1BF2, 1 , 1C72, 1 , 1CA0, 1 , 1C14, 1	C76, 1C80 CAA, 1CAE				
71 1889 RDAT 1A30, 1C5A DATE 17MAR66 EC 125643	ID F806-0 PAGE 5	DATE 17MAR66 EC 125643	6	1AOE, 1ABC,	1AD0, 1864	, 1884, 1	890, 18A2			ID PAGE	F806-0 5A

IBM MAINTENANCE DIAGNOSTIC P	ROGRAM			P/N 840474	IBM MAINTENANCE DIAGNOSTIC PROGRAM		P/N 840474
* F8041 2821 SCAN/2540 REA F8060 PUNCH TRANSLATOR FLT				PAGE 6	F804 2821 SCAN/2540 READER/PUNCH F806 PUNCH TRANSLATOR FLT -ROUTINE OVERLAY 5-		PAGE 6A
	1BCO, 1C2E, 1C3A, 1C4C, 1D9E, 1DC8, 1DE2, 1DF4	1D14, 1D46, 1D78			PERIODS CORRESPOND TO BLANK COLUMNS.		
1 114C CAWKEY 90 198E COMDAT 8 1E08 CRDCCW 1 112C CSWSAV	1A34, 1A3A, 1A3E, 1A3E, 1D7C	1A9C, 1ACO, 1AFE			COLS. 1 THROUGH 20 COLS. 21 THROUGH 40 BESDAAAAXF80 60OAAA.AFJ 9 YQ Y9 YQ Y9	COLS. 41 THROUGH 60	COLS. 61 THROUGH 80 475.12564380600001
7 1E92 ERR650 7 1E99 ERR651 1 1666 EXITBY 4 1C5E LGOUT1	1DE0 1DF2 1D02				99 9 999 99 BTXT-AANACAAAJ49 YQ9 Y9 Y9Y8		80600002
2 1CEE LGOUTA 4 1D08 LGOUTY 4 1D14 LGOUTY 1 C MINNON	1CC6, 1CCE, 1CD6, 1CDE, 1C52 1DOC	1066	•		99 9 9 99 BTXT-AAAH-AAAAAA GANB9 YQ Y99YYY 8Y8Y	••••••	80 60 000 3
1 6 NEQUAL 16 1E82 NERDET 1 9 NMIXED	1AC6, 1B2E, 1C20, 1CC6, 1CE6, 1D02, 1DC4	1CCE, 1CD6, 1CDE			99 9 9 999 9999 BTXT-APOA8AAAAAA AAAAAAAAAAAAAAAAABC 9 Y9- Y9 Y9YYYY YYYYYYYYYYYYYYY999	DEFGHABAJJKJ/S/SA.AB 9999988Q988Y9988Q ZZ	HAB&AHJ-/KLQ80600004 Z88 RR8 ZZZ
1 D NOTBSY 1 4 NOTZRO 16 1E20 OUTDAT 2 1C46 PRCRES 8 1E00 PRDCCW	1ACO 1B6E, 1B9A 1D4E				9 9 9 9999 999999999999999999999999999	999 999 99Z BSJSTYZKLOB Q8Z YY Q 9 99 Z	80600005
4 1836 PT0630 4 1852 PT0631 8 1DF8 PWRCCW 71 1947 RDCKRD	184E 18D4 1028				BTXT-AJYA8AAAERR	EA7DGABKKBONFOGO7MAB -Y QZYQQ 9 ZQ&Z 9-9 9 Z Z-	ODGABJBOAGFC80600006 9ZYQY8-Y8QR 299 9ZO
4 1DCA RDCRD1 4 1DE6 RDCRD2 4 1DD4 RDCRDX 1 179C SCHNUM	1065 1DD0 1DC4 19F8, 1A00				BTXT-AKJA8AAA-OD GABUEA66AA7UAJ8IAA9F 9 Y8Y Y9 Y9- 9 ZYQ8ZY 8ZQ ZY OZQ Y 999 9 9 7 29 9 9 7 2	LOBA9FKH9G9FEJEQKAAF 8Z-Y Y R Y YZYQ9 YQY 9 9 Z 99	24EJEBKAJF2480600007 9ZYQ8 YYY 9 Z 99
1 1234 SCPDAT	1A48, 1A52, 1ADC, 1B52, 1BAA, 1BBC, 1BD8, 1C36, 1C74, 1C82, 1C90, 1C9E,	1876, 1894, 189E 1C5E, 1C62, 1C62 1CAC, 1CBA, 1CBC 1D1C, 1D22, 1D22			BTXT-AKHA8AAPG70 70PG7Q7QKA7QJAHA7QLA 9 Y8R Y9 Y9 9 - 9 Y YYRQ 8Y 99 9 9 9 9 99 0 99	HAAA&A7OAHJGGABDFA7O OQY9 Q9YZZYQO-Y - O9 O 9 Z	HA70QFMAFALH80600008 RQ -9-8YQQ80 O Z99
1 163E SCPROO	1D56, 1D5A, 1D5A, 1D6C,	1D88, 1D8C, 1D8C 1D8E, 1DF8, 1E00			BTXT-AKAA8AANAFM HAAA&A70AI9FDCAA70AA 9 Y8Q Y9 Y98YQ9 OQYY Q -Z- Y 9QY -ZQ 99 9 7 Z 0 9 0 9 0	8TAAAANLGABOAJJAAA 8ZQQ998ZYQ&ZYY9Z 9 9 99 9 Z 99	GOBDNG9FFJG-80600009 Z QZ 8 YQYZ Z Z9
1 114D SIOSW5 1 114D SIOSWS 1 112C SIOVR3 1 1134 SIOVR4	1D30, 1D38, 1D4A, 1D64,	1D84, 1D96			BTXT-AKHA8AABMBO AAFBGODFAAADEAEJAA24 9 Y8 Y9 Y9Q 8- YQQOZ Q8ZQY8ZQQYZQ 9 99 9 2 9 9Z 2 999 0Z	BA9YLSCJAAAAACAAAIA -Y 89ZYQYZQQ9ZQQYOQ 9 9 9 9 Z 9 Z	AQAAAAA.ADA&80600010 Y9ZQQ9Z Y9Z 9 9
1 11F8 STATSV 1 1060 SVRPSW 1 10E2 UN1ADR 1 10E6 UN2ADR	1A08 1D18			•	BTXT-ALAA8AA9FLH CAAAAH&AAAAAC-AAAAAA 9 Y8Y Y9 Y9 Y80 ZYQYZR YZQQ9 999 9 9 9 9 9	0AACHAALAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	FDG-C6A0A&HJ80600011 Q8Z Q9Z&Y RY Z9 Z -9 9
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D3A5.CJAA0081FDDBFAS	JGAA7H/AAAAA0082AGAH	GHEAFA4GA2BGAAAA.JAA	AAAA0083180600051
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diffe Balance Person a	F804 2821 SCAN/2540 F806 PUNCH TRANSLATOR	READER/PUNCH FLT -ROUTINE OVERLAY 5-	:		F804 2821 SCAN/2540 F806 PUNCH TRANSLATOR	READER/PUNCH R FLT -ROUTINE OVERLAY 5-		
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F804 2821 SCAN/2540 READER/PUNCH F806 PUNCH TRANSLATOR FLT -ROUTINE OVERLAY 5-

06.8HAAAA0402F41BDAD &9 99YYYY 98899Q8	AA.ABBABAAAAO4O4GAH. 98 Q8989YYYY 9QZ 9 Z 9999 Z	DA4JHD02BGA3DAA0405L 9Q8YZ9 99ZY99YY 9 999 99	DUJBJEAKH180600153 897878999 9 999
CGA7HBADJGPAJA2BHA3D 989898Y9YY998Q99ZQ98	BGJTB.J4QJVA8HAA0406 98Y99 Y89Y8Q99YY	EA3BDA4JFA3JBVABADJ4 8Q899Q8YZQ 899Y8Y9Y8	JA2BGA5180600154 8Q99ZY8
99 99 99 99	99 99 999 99	929 999 9 99	99 9
07JAAAAAA0407H7DBDAD &9YYYYYYY 98Z99Q8 9999999 9 9	ALDG2BCBJJ3A0408KCFA 989Q99899Y99 89ZY 9 Z 9 9	4JGHEAOB.DAKHFACA.LD 8YZ989 9 8999Z098 99	HD2B180600155 Z999
GHA1BDAGADDA5.F.ABG8 QZQ89ZYZYY998 Z 99Y9 Z 99 9 9 9	AAABA.JOSAEAAAAAO410 Qzyz9 y 9yz9yyyy 9 9 9999	GOQJ2.4JGH3EADJJA2BD 889Y9 8YZ9 899Y8Q99Q 9 9 99 Z	GACB3AFJ180600156 ZY89998Y 9
0VH.JTAAA0411MDUJBJE 99 Y99YY 989Y8Y8 9 99 9999	AKHCGATHBADJGPAJA2BH 999989898Y9YY998Q99Z 9 9 99 99	A3DBGJTB.JAQJVA8HU.0 Q9898Y99 YQ9Y8Q999 9 9 97 99	412180600157
CA7JDAGHFADVABADJJA0 809Y90Z9Z9Y9Y8Y9Y8Q	2BGA8HAAO413D0QABJGH 99ZY99YY 8&998YZ9	FA4A.JBVABADDJJA1B3A ZQ88 899Y8YY9Y8Q898Q	0416180600158
92 9 9 99 999	99 9 99	999 9 9 9999 99	
E73ADA2BCBADBAAAAAA0 98999Q9989YZ9YYYYY	417LGSABJEAB.DADFASJ 989Y8Y899 Q898Y9Y	GA7HDPA2B1B0GJGJABQJ 898Z9999989 ZY8Y999Y	DXDXHEAAA180600159 Y8989Z9YY
9 9 9 999999	9 99 Z9 9	9 9 9 9 9 9	99 9 99
0418GDJBBJADA-GYJ4BD 844988889999	JEJD6HAB1BMADFADAXDA Y9Y889Y8898YZ88YY	A0420F4GJDADAGAALDHA Y 98ZY9Q8989Q99ZQ	AAAA0425180600160 YYYY
999 999 9 9 9	9-999 9 9 7 9 9	9 999 9 2 9	9999
CCOBBJ7HEJG/ADBT-GJA 8 898Y89Y89Y899 8YY 9 9 999 99 999	P-TBDAAA0431FC7HKH/A 9 99Z9YY 9 89999Y 99 9	KAAJJFAAAAA0435HDCAB 9QY8Y8YYYYY 9Y8Q8 9999 9999 9999	JFA7H180600161 Y8Y89 99 9
9 9 999 99 9 999	99 9	9999 9999 9999	99 9
ABAWD3ABA0440C4SJDAF Q8Q998QZ9 989Y9Q8	AAAO446DOFA2.GHVA045 YYY 98ZQ9 Z99Y	1D0FHYJBA/-0455A0FJ2 9&899Y8Y8 8&8Y9	.4JGH180600162 8YZ9
Z99 99 9 99	99 9	9 9 . 9 9	99
GEA2BCB3A0QJAAAAAA04 Q89998999899YYYYYYY Z 9999999	61E41BDADAA.0BBAAAAA 98899Q898 &89YYYYY 99 9 9 99999	A0466DDA.BJCACH0472C Y .9Y8 8Y8999 9 9 .99 999	4FADAGAAA180600163 88Y9Q89YY 99 99 99
0477C0YJ4BBAAA0484B0	4J2.AAAAO488DGA.BJCA	CH0492DDGABJFA/A0495	EC7HKH/AKA.180600164
989Y998YYY 98 99 99	8Y9 YYYY 9Y8 8Y89 99 9999 99 999	99 9789878797 99 999	9 89999490
0JJAAAAAAAA9 88YYYYYYY	•••••	•••••	180600165
99999999		; }.	
BLDT9		•••••	80600166

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2821 - 1403 UCS SCAN

1403 UCS SCAN DESCRIPTION

1. PURPOSE

1.1 INTENT

TO ISOLATE A SOLID DATA PATH FAILURE WITHIN THE 2821/1403 UNIVERSAL CHARACTER SET ATTACHMENT.

2. PREREQUISITES

2.1 PROGRAM REQUIREMENTS

THE PROGRAM IS RUN WITH A DIAGNOSTIC MONITOR.
THE PROGRAM ASSUMES THAT THE CPU & CHANNEL ARE OPERABLE.
THE PROGRAM IS RELOCATABLE.

THE UNIT DEFINITION TABLE-UDT-ENTRY MUST BE PUNCHED AS FOLLOWS.

_	UNIT CO	DE *	*		PTIO	ONAL	FEA	TURE	: ס	IGIT	* 1* *	OP1	IO	NAL	FEAT	URE	DIG	IT	2	** ** -*
_	UNIT		*	HEX	8*	HEX	4*	HEX	24	HEX	1*	BIT HEX	8*	HEX	4*	HEX	2*	HEX	1	*
_	1403 PF											HI-						282		
	OR.		**			TAPE			*(CHAR	*	SPEE) *1	PRIN	T ×		*2	CH	NL	4
	1404 PF	TNTERM	*		*	IST	FR*		*	SUFF	*	PTR.	*	POS.	*		* 5	WIT	CH	×
		uous *			*		*		*		- ***		*		*		*			4
	FORMS	*	*		*		*		*		*		*		*		*			×

2.2 EQUIPMENT REQUIREMENTS

PROGRAM LOADING DEVICE
HARD COPY OUTPUT DEVICE *
CPU - OPERABLE
CHANNEL - OPERABLE
8K MINIMUM STORAGE
2821 INTEGRATED CONTROL UNIT

* THE OUTPUT DEVICE CANNOT BE THE DEVICE UNDER TEST.

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2.3 2821 REQUIREMENTS

CONTROL CIRCUITS FUNCTION PROPERLY.
ERROR CHECKING CIRCUITS FUNCTION PROPERLY.
PRINTER CAN BE MADE READY.
DATA MODE SWITCH MUST BE SET TO BYTE MODE.

2.4 PROGRAM IDENTIFICATION NUMBERS

TO MINIMIZE MAINTENANCE COSTS FOR FUTURE PROGRAM REVISIONS DUE TO ENGINEERING CHANGE ACTIVITY, THE FOLLOWING ID NUMBERS HAVE BEEN ASSIGNED TO VARIOUS PORTIONS OF THIS PROGRAM PACKAGE.

I ID NUMBER I	ASSIGNMENT
I F80C* I	DESCRIPTION OF COMPLETE PROGRAM WHICH INCLUDES ALL ROUTINE OVERLAYS.
I F80C	OBJECT DECKS AND ASSEMBLER PROGRAM LISTINGS FOR ROUTINE OVERLAYS O1 AND O2.
I F80D I	OBJECT DECKS AND ASSEMBLER PROGRAM LISTINGS FOR ROUTINE OVERLAYS 03 AND 04.

NOTE THE SEARCH NUMBER FOR THIS PROGRAM IS 80C-80D CAN NOT BE USED.

3. USE PROCEDURE

3.1 LOADING

STANDARD VIA DM AS DESCRIBED IN THE USERS GUIDE.

SINCE THIS PROGRAM PACKAGE UTILIZES THE PROGRAM OVERLAY CONCEPT, ALL ROUTINES MUST BE LOADED AND RUN IN ID NUMBER SEQUENCE.

3.2 OPERATING

3.2.1 GENERAL OPERATING

THE PRINTER MUST BE MADE READY BEFORE RUNNING PROGRAM.

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IMPORTANT THE ORIGINAL CONTENTS OF THE UCS BUFFER ARE DESTROYED BY F80C AND F80D. THESE PROGRAMS NO LONGER PROVIDE THE FACILITY TO RESTORE THE UCS BUFFER—THEREFORE, DO NOT ADD ANY CHAIN CONFIGURATION DATA CARDS TO F80C OR F80D. USE PROGRAM F837 TO RESTORE UCS BUFFERS.

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3.2.2 SENSE SWITCH USAGE -- COMMON TO ALL ROUTINES--

THE SENSE SWITCHES SHOWN BELOW ARE IN THE SENSE SWITCH BYTE OF THEIR RESPECTIVE SECTION PREFACE. THE CHARACTER X REPRESENTS THE RELOCATION FACTOR CONTAINED IN REGISTER 15 DURING RUN TIME. THE SWITCH BITS ARE ZERO WHEN OFF, AND ONE WHEN ON.

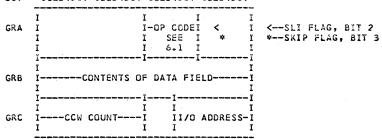
SENSE SW. #	I I FUNCTION I	SECTION I OR I ROUTINE I	AND
0	I OFFPROCEED NORMALLY I ONSHORT LOOP ON START I/O - TEST I/O		X004 0
1	I OFFPROCEED NORMALLY I ONENTER UTILITY SCOPE ROUTINE I REFER TO SECTION 3-2-3 FOR DETAILS	I ,, 1	X004 1
2	I OFFPROCEED NORMALLY I ONLOG OUT DATA ACCUMULATION TABLE I REFER TO SECTION 4-4 FOR DETAILS	I ; ; ; I	X004 2
6	I OFFPROCEED NORMALLY I ONPRINT SECTION TITLE	I ,,]	X004

3.2.3 UTILITY ROUTINE SET-UP PROCEDURES

THIS IS A RESIDENT ROUTINE. IT CAN ONLY BE ENTERED AT THE BEGINNING OF EACH ROUTINE OR AFTER THE ANALYSIS RESULTS AND LOG OUT PRINTOUT OF EACH ROUTINE. THIS ROUTINE WILL BE ENTERED AT THESE TIMES IF SECTION SENSE SWITCH 01 IS SET TO 1.

WHEN THIS ROUTINE IS ENTERED, AN OUTPUT MESSAGE WILL INFORM THE C.E. TO PRESS CONSOLE STOP, THEN ENTER THE SCOPING DATA. THIS DATA IS TO BE ENTERED, IN HEX, VIA THE CONSOLE SWITCHES AS INDICATED BELOW.

BYTE 0 1 2 3 BIT 01234567 01234567 01234567 01234567



NOTES-- THE FOUR BYTES OF DATA ENTERED IN GRB WILL BE RIPPLED THROUGHOUT THE CCW DATA FIELD.
-- IF THE CCW COUNT EXCEEDS 250 BYTES, THE ROUTINE WILL FORCE IT TO 250.

-- THE MAIN STORAGE LOCATIONS OF PERTINENT FIELDS
USED BY THIS ROUTINE ARE LISTED BELOW. X DENOTES
THE RELOCATION FACTOR CONTAINED IN
REGISTER 15 DURING RUN TIME.

SIO INSTRUCTION -- X700 THRU X703

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CAW -- X048 THRU X048 CCW -- X570 THRU X577 DATA FIELD -- X57C THRU X675

AFTER THE ABOVE DATA HAS BEEN ENTERED, THE C.E. COULD SET UP ONE OF THE FOLLOWING OPTIONS BEFORE PRESSING CONSOLE START.

- 1. SET SECTION SENSE SWITCH 0 TO 1 TO PUT THE SELECTED OP IN A TIGHT START I/O - TEST I/O LOOP.
- 2. SET SECTION SENSE SWITCH 0 TO 0 TO PERFORM THE SELECTED OP ONCE. IN THIS CASE THE UTILITY ROUTINE WILL PERFORM THE SELECTED OP ONCE, THEN REQUEST NEW SCOPING DATA.
- 3. SET SECTION SENSE SWITCHES 0 AND 1 TO ZERO. IN THIS CASE, THE SELECTED OP WILL NOT BE PERFORMED, AND A BRANCH BACK TO THE MAIN PROGRAM WILL OCCUR.

THE C.E. CAN EXIT FROM THE UTILITY ROUTINE BY PRESSING CONSOLE STOP AT ANY TIME, SET SECTION SENSE SWITCHES O AND 1 TO ZERO, THEN PRESS CONSOLE START.

3.3 HALTS

3.3.1 NORMAL HALTS

NONE

3.3.2 ERROR HALTS -- COMMON TO ALL ROUTINES-

THE PROGRAM WILL NOT STOP ON ANY ERROR HALTS UNLESS THE HALT ON ERROR SENSE SWITCH IS ON IN THE DIAGNOSTIC MONITOR.

3.3.3 SPECIAL HALTS -- COMMON TO ALL ROUTINES-

THE PROGRAM WILL ONLY HALT ON THE SPECIAL HALTS IF THE CORRESPONDING SENSE SWITCHES ARE SET.

HALT AFTER LOG OUT OF THE DATA ACCUMULATION TABLE.

IF THE OPERATOR REQUESTS THE LOG OUT OF THE DATA TABLE, THE PROGRAM WILL HALT AFTER THE LOG OUT. IN ORDER TO CONTINUE, THE INTERRUPT KEY ON THE CONSOLE MUST BE DEPRESSED.

HALT TO SET UP INFORMATION FOR UTILITY ROUTINE.

IF THE OPERATOR REQUESTS TO USE THE BUILT IN UTILITY ROUTINE, THE PROGRAM WILL HALT TO ALLOW THE ENTERING OF NECESSARY INFORMATION. AFTER THE INFORMATION IS ENTERED, THE CONSOLE START KEY MUST BE DEPRESSED TO CONTINUE.

3.4 TERMINATION

THE PROGRAM RETURNS CONTROL OF THE SYSTEM TO MONITOR VIA MONITOR CALL SVC D6.

4. PRINTOUTS

4.1 TITLE PRINTOUTS

THE FOLLOWING TITLE PRINTOUTS WILL OCCUR ONLY IF SECTION SENSE SWITCH 06 IS SET TO 1.

-2821 SCAN/1403 UCS, CONTROL PROG-

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ABOVE PRINTOUT IS THE TITLE FOR ROUTINES 01 AND 02.

-2821 SCAN/1403 UCS, PRINT BUFFER DATA REG FLT-ABOVE PRINTOUT IS ROUTINE 03 TITLE.

-2821 SCAN/1403 UCS, UCB DATA REG FLT-

ABOVE PRINTOUT IS ROUTINE 04 TITLE.

4.2 INSTRUCTIONS TO THE OPERATOR -- COMMON TO ALL ROUTINES--

-NOTE-DO NOT USE DEVICE UNDER TEST FOR OUTPUT-

ABOVE MESSAGE IS PRINTED TO REMIND THE C.E. NOT TO USE THE DEVICE UNDER TEST AS THE OUTPUT DEVICE. THIS IS NECESSARY BECAUSE THE TEST PROGRAM DESTROYS THE ORIGINAL DATA IN THE UCS BUFFER.

-I/O ADDR XXX CAW YYYYYYYY GOT CC1 CSW STATUS 0200 SNS 40 MAKE PRINTER RDY-

ABOVE MESSAGE WILL BE PRINTED IF INTERVENTION REQUIRED IS ENCOUNTERED WHEN TRYING TO EXECUTE AN I/O OPERATION.

XXX DEFINES THE UNIT ADDRESS AND Y--Y DEFINES THE CHANNEL ADDRESS WORD DATA. THE PROGRAM WILL LOOP FOR 20 SECONDS TO ALLOW THE UNIT TO BE MADE READY. THE MESSAGE WILL BE REPEATED EVERY 20 SECONDS IF THE CONDITION IS NOT RECTIFIED.

-ORIGINAL CONTENTS OF UCS BUFFER FOR PRINTER--XXX DESTROYED, RESTORE WITH PROGRAM F837 -

ABOVE MESSAGE IS INDICATED BY ROUTINE OVERLAY 04. XXX INDICATES THE ADDRESS OF THE PRINTER WHICH REQUIRES ITS UCS BUFFER TO BE RESTORED. THIS MESSAGE IS INDICATED FOR EACH PRINTER TESTED BY F80C AND F80D.

4.3 ERROR MESSAGES

4.3.1 ERROR MESSAGES COMMON TO ALL ROUTINES.

-BYPASSED-UCS NOT DEFINED-

ABOVE MESSAGE WILL BE PRINTED IF THE TESTS ARE NOT RUN. THIS WILL OCCUR IF THE UDT ENTRY FOR THE PRINTER DOES NOT SPECIFY UCS.

-I/O ADDR XXX CAW YYYYYYYY GOT CC O BUT NO INTERRUPT-

ABOVE MESSAGE WILL BE PRINTED IF NO INTERRUPT OCCURS WITHIN 10 SECONDS OF RECEIVING CONDITION CODE O TO AN I/O OPERATION. XXX DEFINES THE UNIT ADDRESS AND Y--Y DEFINES THE CHANNEL ADDRESS WORD DATA. THE PROGRAM WILL RETRY THE I/O OPERATION.

-I/O ADDR XXX CAW YYYYYYYY GOT CC U CSW STATUS VVVV SNS ZZ-

ABOVE MESSAGE WILL BE PRINTED WHEN CONDITION CODES 1, 2, OR 3 ARE RECEIVED IN RESPONSE TO AN I/O OPERATION. XXX DEFINES THE UNIT ADDRESS, Y--Y DEFINES THE CHANNEL ADDRESS WORD DATA, U DEFINES THE CONDITION CODE --1, 2, OR 3--, VVVV DEFINES THE DEVICE AND CHANNEL STATUS, AND ZZ DEFINES THE SENSE DATA. THE PROGRAM WILL RETRY THE I/O OPERATION.

4.3.2 ERROR MESSAGES COMMON ONLY TO ROUTINE 01 -- CONTROL PROGRAM--

-ERR 001-

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SYNC CHECK PROBLEM - PROBABLY AN ADVANCE BY 2 PROBLEM OR A BAR UNITS ENCODE ADVANCE BY 3 PROBLEM

-ERR 002-WRONG CSW RESIDUAL COUNT - PROBABLY A BAR ADVANCE BY 1 PROBLEM

-ERR 003-*** RESERVED ***

-ERR 004-PRINT BUFFER DATA REGISTER OR ASSOCIATED PARITY CIRCUITS PROBLEM

-ERR 005-FALSE UNIT CHECK - COULD BE HAMMER CHECK ON SOLID

-ERR 006-PRINT BUFFER PROBLEM

-ERR 007-FALSE PRINT CHECK - COULD BE COMPARE CIRCUITS

-ERR 008-FALSE EQUIPMENT CHECK

-ERR 009-*** RESERVED ***

-ERR 010-INTERMITTENT BUS-IN PROBLEM

> -ERR 011-BUS-IN --1-- BIT PROBLEM

-FRR 012-

BUS-IN CIRCUITS PROBLEM - PICKED UP BITS

-ERR 013-FALSE DATA CHECKS

-ERR 014-PROBLEM SETTING PLC BITS FOR BLANK CHARACTERS

-ERR 015-PRINT DATA REGISTER - LOST BITS

-ERR 016-PRINT BUFFER - LOST BITS

-ERR 017-BUS-IN CIRCUITS PROBLEM - LOST BITS

-ERR 018-INTERMITTANT HOT BITS OCCURRING

-ERR 019-PRINT BUFFER PROBLEM ABOVE POSITION 1

-ERR 020-PRINT BUFFER INSERT BLANK PROBLEM

4.3.3 ERROR MESSAGES COMMON ONLY TO ROUTINE 02 -- CONTROL PROGRAM--

-ERR 021-FALSE UNUSUAL COMMAND SEQUENCE

-ERR 022-UCS DATA REGISTER OR ASSOCIATED PARITY CIRCUITS PROBLEM

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-ERR 023-UCS BUFFER PROBLEM

INTERMITTANT PRINT BUFFER PARITY ERROR

COMPARE PROBLEMS AND ASSOCIATED SET PLC CIRCUITS

UNDEFINED INTERMITTANT ERROR -COULD BE FALSE UNIT CHECK

INTERMITTENT UCB DATA REGISTER PROBLEM, OR INTERMITTENT UCB PARITY CHECK CIRCUITS PROBLEM

-ERR 028-INTERMITTANT OR FALSE ERROR

INTERMITTANT OR FALSE PARITY CHECK

-ERR 030-HAMMER FIRE PROBLEM

-ERR 031-BAD UCS BUFFER CORE ABOVE POSITION 81

-ERR 032-FALSE DATA CHECK

-FRR 033-FALSE UNIT CHECK

-ERR 034-FALSE PRINT CHECK

-FRR 035-FALSE EQUIPMENT CHECK

-ERR 036-WRONG CCW RESIDUAL COUNT - PROBABLE BAR ADVANCE PROBLEM - UCB

SYNC CHECK PROBLEM - PROBABLE ADVANCE BY 2 PROBLEM OR BAR UNITS ENCODE ADVANCE BY 3 PROBLEM

PLC INHIBIT CIRCUITS PROBLEM

4.3.4 ERROR MESSAGES COMMON ONLY TO ROUTINE 03 -- PRINT BUFFER

-NO DATA TRANSFERRED BY DIAGNOSTIC CHECK READ FOR DEVICE XXX-

THE ABOVE PRINTOUT INDICATES A DIAGNOSTIC CHECK READ FAILURE. XXX WILL INDICATE THE DEVICE I/O ADDRESS.

ALL PRINT BUFFER DATA REG TRIGGERS NEVER ACTIVE - PROBLEM MAY BE IN FOLLOWING AREAS.

1. PRINT BUFFER DATA REG RESET ALWAYS ACTIVE, CLOCK 0-2. LOGIC PAGE 33.33.44.1

CIRCUITS - A4CO9, A4C11, A4CO6, A4E19
2. BUFFER ENTRY ON LINE NEVER ACTIVE.
LOGIC PAGE 33.33.44.1 CIRCUITS - A4C10, A4C06

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-ERR 051-ALL PRINT BUFFER DATA REG TRIGGERS ALWAYS ACTIVE -- PRINT BUFFER DATA REG RESET NEVER ACTIVE, CLOCK 0-2.

CIRCUITS - A4C09, A4C11, A4C06

LOGIC PAGE 33.33.44.1

-ERR 052-PRINT BUFFER DATA REG 0 TRIGGER NEVER ACTIVE --BUS OUT 0--LOGIC PAGE 43.34.18.1 . CIRCUITS - A4F02, A4G01, A4F01

-ERR 053-PRINT BUFFER DATA REG O TRIGGER ALWAYS ACTIVE -- BUS DUT O--LOGIC PAGE 43.34.18.1 CIRCUITS - A4F02, A4G01, A4F01, A4H02

-ERR 054-PRINT BUFFER DATA REG 1 TRIGGER NEVER ACTIVE --BUS OUT 1--LOGIC PAGE 43.34.18.1 CIRCUITS - A4GO2, A4GO1, A4FO1

PRINT BUFFER DATA REG 1 TRIGGER ALWAYS ACTIVE -- BUS OUT 1-LOGIC PAGE 43.34.18.1 CIRCUITS - A4G02, A4G01, A4F01, A4H02

PRINT BUFFER DATA REG B TRIGGER NEVER ACTIVE -- BUS OUT 2--LOGIC PAGE 33.23.06.1 CIRCUITS - A4E07, A4E06, A4E09, A4E11 LOGIC PAGE 31.11.37.1 CIRCUITS - A1F13, A1H12

-ERR 057-PRINT BUFFER DATA REG B TRIGGER ALWAYS ACTIVE -- BUS OUT 2-LOGIC PAGE 33.23.06.1 CIRCUITS - A4E07, A4G06, A4F09, A4F11, A4H06 LOGIC PAGE 31.11.37.1 CIRCUITS - A1F13, A1H12

-ERR 058-PRINT BUFFER DATA REG A TRIGGER NEVER ACTIVE -- BUS OUT 3--LOGIC PAGE 33.23.06.1 CIRCUITS - A4E08, A4F06, A4F09, A4F11 LOGIC PAGE 31.11.37.1 CIRCUITS - A1F14, A1H15, A1H12

PRINT BUFFER DATA REG A TRIGGER ALWAYS ACTIVE -- BUS OUT 3-LOGIC PAGE 33.23.06.1 CIRCUITS - A4E08, A4F06, A4F09, A4F11, A4H06 LOGIC PAGE 31.11.37.1 CIRCUITS - A1F14, A1H15, A1H12

PRINT BUFFER DATA REG 8 TRIGGER NEVER ACTIVE -- BUS OUT 4--LOGIC PAGE 33-23-06-1 CIRCUITS - A4E08, A4G07, A4F10, A4F11

PRINT BUFFER DATA REG 8 TRIGGER ALWAYS ACTIVE -- BUS OUT 4-LOGIC PAGE 33.23.06.1 CIRCUITS - A4E08, A4G07, A4F10, A4F11, A4H07

PRINT BUFFER DATA REG 4 TRIGGER NEVER ACTIVE -- BUS OUT 5--LOGIC PAGE 33.23.05.1 CIRCUITS - A4E09, A4F07, A4F10, A4F11

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LOGIC PAGE 31.11.32.1 CIRCUITS - AIF14, AIF13

-ERR 063PRINT BUFFER DATA REG 4 TRIGGER ALWAYS ACTIVE --BUS OUT 5-LOGIC PAGE 33-23-05-1
CIRCUITS - A4E09, A4F07, A4F10, A4F11, A4H07
LOGIC PAGE 31-11-32-1
CIRCUITS - A1F14, A1F13

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-ERR 064PRINT BUFFER DATA REG 2 TRIGGER NEVER ACTIVE --BUS OUT 6-LOGIC PAGE 33.23.05.1
CIRCUITS - A4E09, A4G08, A4F10, A4F12

-ERR 065PRINT BUFFER DATA REG 2 TRIGGER ALWAYS ACTIVE --BUS OUT 6-LOGIC PAGE 33.23.05.1
CIRCUITS - A4E09, A4G08, A4F10, A4F12, A4H08

-ERR 066PRINT BUFFER DATA REG 1 TRIGGER NEVER ACTIVE --BUS OUT 7-LOGIC PAGE 33-23-05-1
CIRCUITS - A4E10, A4F08, A4F10, A4F12
LOGIC PAGE 31-11-33-1
CIRCUITS - A1F13, A1H14, A1H13

-ERR 067PRINT BUFFER DATA REG 1 TRIGGER ALWAYS ACTIVE --BUS OUT 7-LOGIC PAGE 33.23.05.1
CIRCUITS - A4E10, A4F08, A4F10, A4F12, A4H08
LOGIC PAGE 31.11.33.1
CIRCUITS - A1F13, A1H14, A1H13

-ERR 068PRINT BUFFER DATA REG C TRIGGER NEVER ACTIVE --BUS OUT P-LOGIC PAGE 33.23.07.1
CIRCUITS - A4E07, A4F05, A4F09, A4F12, A4C11
LOGIC PAGE 33.33.44.1
CIRCUITS - A4C05, A4C08
LOGIC PAGE 31.11.33.1

-ERR 069PRINT BUFFER DATA REG C TRIGGER ALWAYS ACTIVE -- BUS OUT P-LOGIC PAGE 33.23.07.1
CIRCUITS - A4E07, A4F05, A4F09, A4F12, A4C11, A4H05
LOGIC PAGE 33.33.44.1
CIRCUITS - A4C05, A4C08
LOGIC PAGE 31.11.33.1
CIRCUITS - A1B18, A1G14, A1H14

-ERR 070-FALSE PRINT BUFFER DATA REG PARITY ERRORS LOGIC PAGE 33.23.10.1 CIRCUITS - ALL ON ABOVE LOGIC PAGE LOGIC PAGE 43.34.18.1 CIRCUITS - A4609, A4A10, A4B08

4-3-5 ERROR MESSAGES COMMON ONLY TO ROUTINE 04 -- UCB DATA REG FLT--

-NQ DATA TRANSFERRED BY DIAGNOSTIC CHECK READ FOR DEVICE XXX-

THE ABOVE PRINTOUT INDICATES A DIAGNOSTIC CHECK READ FAILURE. XXX WILL INDICATE THE DEVICE I/O ADDRESS.

-ERR 080-FALSE UCB DATA REG PARITY ERRORS

CIRCUITS - A1B18, A1G14, A1H14

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LOGIC PAGE 43-34-36.1 CIRCUITS - A2DO6, A2DO8, A2DO7 LOGIC PAGE 43-34-37.1 CIRCUITS - A2DO5, A2D16, A2H22, A2F24, A2DO8, A2E22

-ERR 081-UCB DATA REG PARITY BIT ALWAYS ACTIVE LOGIC PAGE 43-34-33-1 CIRCUITS - A2GO5, A2EO5, A2HO5

-ERR 082-UCB DATA REG PARITY BIT NEVER ACTIVE LOGIC PAGE 43-34-33-1 CIRCUITS - A2G05, A2E05

-ERR 083FALSE UCB PARITY ERROR WITH UCB DATA REG O BIT ACTIVE LOGIC PAGE 43.34.36.1
CIRCUITS - A2D07, A2D08, A2D06
LOGIC PAGE 43.34.37.1
CIRCUITS - A2D05, A2E22

-ERR 084

FALSE UCB PARITY ERROR WITH UCB DATA REG 2 BIT ACTIVE LOGIC PAGE 43.34.36.1

CIRCUITS - A2D07, A2D08, A2D06

LOGIC PAGE 43.34.37.1

CIRCUITS - A2D05, A2E22

-ERR 085FALSE UCB PARITY ERROR WITH UCB DATA REG 3 BIT ACTIVE LOGIC PAGE 43-34-36-1
CIRCUITS - A2D07, A2D08, A2D06
LOGIC PAGE 43-34-37-1
CIRCUITS - A2D05, A2E22

-ERR 086-FALSE UCB PARITY ERROR WITH UCB DATA REG 4 BIT ACTIVE LOGIC PAGE 43.34.36.1 CIRCUITS - A2D07, A2D08, A2D06 LOGIC PAGE 43.34.37.1 CIRCUITS - A2D05, A2E22

-ERR 087FALSE UCB PARITY ERROR WITH UCB DATA REG 5 BIT ACTIVE LOGIC PAGE 43.34.36.1
CIRCUITS - A2D07, A2D08, A2D06
LOGIC PAGE 43.34.37.1
CIRCUITS - A2D05, A2E22

-ERR 088FALSE UCB PARITY ERROR WITH UCB DATA REG 6 BIT ACTIVE
LOGIC PAGE 43.34.36.1
CIRCUITS - A2D07, A2D08, A2D06
LOGIC PAGE 43.34.37.1
CIRCUITS - A2D05, A2E22

-ERR 089-FALSE UCB PARITY ERROR WITH UCB DATA REG 7 BIT ACTIVE LOGIC PAGE 43.34.36.1 CIRCUITS - A2D07, A2D08, A2D06 LOGIC PAGE 43.34.37.1 CIRCUITS - A2D05, A2E22

-ERR 090-FALSE UCB PARITY ERROR WITH UCB DATA REG P BIT ACTIVE LOGIC PAGE 43.34.37.1 CIRCUITS - A2D05, A2E22

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-ERR 091-FALSE UCB PARITY ERROR WITH UCB DATA REG 1 BIT ACTIVE LOGIC PAGE 43.34.36.1 CIRCUITS - A2D07, A2D08, A2D06 LOGIC PAGE 43.34.37.1 CIRCUITS - A2DO5, A2E22

NEVER GETTING UCB DATA REG RESET LOGIC PAGE 43.34.11.1 CIRCUITS - A2G21, A2E22, A2E23 LOGIC PAGE 43.34.12.1 CIRCUITS - A2D21

UCB DATA REG O BIT ALWAYS ACTIVE LOGIC PAGE 43.34.35.1 CIRCUITS - A2GO4, A2EO8, A2HO4

UCB DATA REG 1 BIT ALWAYS ACTIVE LOGIC PAGE 43.34.35.1 CIRCUITS - A2F04, A2E08, A2H04

-ERR 095-UCB DATA REG 2 BIT ALWAYS ACTIVE LOGIC PAGE 43.34.35.1 CIRCUITS - A2GO3, A2EO7, A2HO3

-ERR 096-UCB DATA REG 3 BIT ALWAYS ACTIVE LOGIC PAGE 43.34.34.1 CIRCUITS - A2F03, A2E07, A2H03

-ERR 097-UCB DATA REG 4 BIT ALWAYS ACTIVE LOGIC PAGE 43.34.34.1 CIRCUITS - A2GO2, A2EO6, A2HO2

-ERR 098-UCB DATA REG 5 BIT ALWAYS ACTIVE LOGIC PAGE 43.34.34.1 CIRCUITS - A2F02, A2E06, A2H02

-ERR 099-UCB DATA REG 6 BIT ALWAYS ACTIVE LOGIC PAGE 43.34.33.1 CIRCUITS - A2GO1, A2EO5, A2HO1

-FRR 100-UCB DATA REG 7 BIT ALWAYS ACTIVE LOGIC PAGE 43.34.33.1 CIRCUITS - A2FO1, A2E19, A2H01

NOT GETTING UCB DATA REG SET OR UCB DATA REG RESET ALWAYS ACTIVE LOGIC PAGE 43.34.33.1 CIRCUITS - A2G21, A2F24, A2G24, A2E24 LOGIC PAGE 43.34.11.1 CIRCUITS - A2G21, A2E22, A2E23

-ERR 102-UCB DATA REG O BIT NEVER ACTIVE LOGIC PAGE 43.34.35.1 CIRCUITS - A2GO4, A2EO8

-ERR 103-

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UCB DATA REG 2 BIT NEVER ACTIVE LOGIC PAGE 43.34.35.1 CIRCUITS - A2GO3, A2EO7

-ERR 104-UCB DATA REG 3 BIT NEVER ACTIVE LOGIC PAGE 43.34.34.1 CIRCUITS - A2F03, A2E07

-FRR 105-UCB DATA REG 4 BIT NEVER ACTIVE LOGIC PAGE 43.34.34.1 CIRCUITS - A2GO2, A2EO6

-FRR 106-UCB DATA REG 5 BIT NEVER ACTIVE LOGIC PAGE 43.34.34.1 CIRCUITS - A2FO2, A2E06

UCB DATA REG 6 BIT NEVER ACTIVE LOGIC PAGE 43.34.33.1 CIRCUITS - A2GO1, A2EO5

-ERR 108-UCB DATA REG 7 BIT NEVER ACTIVE LOGIC PAGE 43.34.33.1 CIRCUITS - A2FO1, A2EO5, A2E19

UCB DATA REG 1 BIT NEVER ACTIVE LOGIC PAGE 43.34.35.1 CIRCUITS - A2F04, A2E08

PLC OR COMPARE PROBLEM - PRESS INTERRUPT TO SELECT REQUIRED FLT

FALSE UCB PARITY ERROR WITH ALL UCB DATA REG BITS ACTIVE LOGIC PAGE 43.34.36.1 CIRCUITS - A2DO6, A2DO8, A2DO7 LOGIC PAGE 43.34.37.1 CIRCUITS - A2D05, A2D16, A2H22, A2F24, A2D08, A2E22

4.4 LOG OUT OF ACCUMULATED DATA BY ROUTINE

4.4.1 ROUTINES O1 AND 02--CONTROL PROGRAM--

LISTED BELOW IS A SAMPLE OF THE LOG OUT INFORMATION. THE DATA IS PRESENTED IN HEX FORM, 4 BITS PER CHARACTER. THIS SAMPLE REPRESENTS THE DATA ACCUMULATED WITH A HOT DATA

THE FIRST FOUR ROWS SHOW THE DATA IN THE WRITE AREA-ALL NULLS. THE FIFTH ROW SHOWS THE CHANNEL END STATUS, DEVICE END STATUS, COMBINATION OF CHANNEL END AND DEVICE END STATUS, AND THE SENSE DATA. ROWS 6,7,8, & 9 SHOW THE CHECK READ DATA. THE 7 BITS -- 01-- SHOW ALL PARITY ERRORS OCCURRED. THE LAST FOUR LINES SHOW DATA READ BACK FROM BUFFER -- ALL 6 BITS--.

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NOTE AT TIMES LINES 6 THRU 13 OF THE ABOVE LOG OUT WILL NOT BE PRINTED. THIS OCCURS BECAUSE THIS DATA HAS NOT BEEN COLLECTED.

4.4.2 ROUTINE 03--PRINT BUFFER DATA REG FLT--

LISTED BELOW IS A SAMPLE OF THE LOG OUT INFORMATION FOR ROUTINE 03. THE DATA IS PRESENTED IN HEX FORM, 4 BITS PER CHARACTER. THIS SAMPLE REPRESENTS THE DATA ACCUMULATED FOR ERROR 062 -- PRINT BUFFER DATA REG TRIG 4, BUS OUT 5 BIT, NEVER ACTIVE ---

```
1 2 3 4 5 6 7 8 9
```

```
80 08 14 00 00 80 00 00 00
40 08 14 00 04 40 0C 00 04
20 08 14 00 00 20 00 00 00
10 08 14 00 00 10 0C 00 00 08 08 14 00 00 08 0C 00 00
04 0A 16 10 05 00 0E 10 05
                                -- ERROR DETECTED THIS ROW: --
02 08 14 00 00 02 00 00 00
01 08 14 00 00 01 00 00 00
```

00 08 14 00 04 00 0C 00 04 FF 0A 16 10 01 FB 0E 10 01

THE ABOVE TABLE IS DEFINED BELOW. COLUMN 1 - DATA WRITTEN BY DIAGNOSTIC WRITE COLUMN 2 - DIAGNOSTIC WRITE CHANNEL-END DEVICE STATUS COLUMN 3 - DIAGNOSTIC WRITE DEVICE-END DEVICE STATUS COLUMN 4 - SENSE DATA AFTER DIAGNOSTIC WRITE COLUMN 5 - FIRST BYTE OF SECOND DIAGNOSTIC CHECK READ DATA - OBTAINED AFTER DIAGNOSTIC WRITE COLUMN 6 - FIRST BYTE OF DIAGNOSTIC READ DATA COLUMN 7 - DIAGNOSTIC READ DEVICE-END DEVICE STATUS
COLUMN 8 - SENSE DATA AFTER DIAGNOSTIC READ
COLUMN 9 - FIRST BYTE OF SECOND DIAGNOSTIC CHECK READ

4.4.3 ROUTINE 04--UCB DATA REG FLT--

LISTED BELOW IS A SAMPLE OF THE LOG OUT INFORMATION FOR ROUTINE 04. THE DATA IS PRESENTED IN HEX FORM, 4 BITS PER CHARACTER. THIS DATA REPRESENTS THE DATA ACCUMULATED TO DETECT ERROR 097 -- UCB DATA REG 4 BIT ALWAYS ACTIVE---

DATA - OBTAINED AFTER DIAGNOSTIC READ

COL 1 2 3 4 5 6 7 8 9 80 1E 14 04 80 08 16 14 00 20 1E 14 00 20 08 16 14 00 10 1E 14 00 10 08 16 14 00 -- ERROR DETECTED THIS ROW --08 1C 00 00 08 08 14 00 04 04 1E 14 04 04 08 16 14 00 02 1E 14 00 02 08 16 14 00 01 1E 14 00 01 08 16 14 00 00 1E 14 00 08 08 16 14 04 48 1C 00 00 48 08 14 00 04 FF 1C 00 00 FF 08 14 00 04

THE ABOVE TABLE IS DEFINED BELOW. COLUMN 1 - DATA WRITTEN BY LOAD UCB COMMAND COLUMN 2 - LOAD UCB COMMAND DEVICE-END DEVICE STATUS COLUMN 3 - SENSE DATA AFTER LOAD UCB COMMAND

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COLUMN 4 - FIRST BYTE OF SECOND DIAGNOSTIC CHECK READ DATA - OBTAINED AFTER LOAD UCB COMMAND COLUMN 5 - DATA WRITTEN BY DIAGNOSTIC WRITE COLUMN 6 - DIAGNOSTIC WRITE CHANNEL-END DEVICE STATUS
COLUMN 7 - DIAGNOSTIC WRITE DEVICE-END DEVICE STATUS
COLUMN 8 - SENSE DATA AFTER DIAGNOSTIC WRITE
COLUMN 9 - FIRST BYTE OF SECOND DIAGNOSTIC CHECK READ

DATA - OBTAINED AFTER DIAGNOSTIC WRITE

5. COMMENTS

5.1 PROGRAM PHILOSOPHY AND ASSOCIATED COMMENTS

THE BASIC PHILOSOPHY EMPLOYED BY THIS PROGRAM IS TO --FIRST--AREA ISOLATE A SOLID DATA PATH FAILURE WITHIN THE 2821/1403 UCS ATTACHMENT, AND --SECOND-- FURTHER ISOLATE THE FAILURE TO PARTICULAR CIRCUIT-S-. IN ORDER TO UTILIZE THIS PHILOSOPHY WITH THE EXISTING MAIN STORAGE SIZE LIMITATIONS, IT WAS NECESSARY TO EMPLOY THE PROGRAM OVERLAY CONCEPT. EACH OVERLAY -- ROUTINE-IS DESCRIBED IN DETAIL BELOW

5.2 DESCRIPTION -- ROUTINES OI AND 02, CONTROL PROGRAM --

THE PRIMARY OBJECTIVE OF THESE ROUTINES IS TO AREA ISOLATE A SOLID FAILURE IN THE 1403 UNIVERSAL CHARACTER SET DATA PATHS WITHIN THE 2821. THESE AREAS ARE DEFINED BELOW--

- 1. PRINT BUFFER DATA REGISTER
- PRINT BUFFER
- PRINT BUFFER ADDRESS REGISTER
- UCS BUFFER DATA REGISTER
- UCS BUFFER
- UCS BUFFER ADDRESS REGISTER
- COMPARE CIRCUITS
- PLC CIRCUITS
- 9. ERROR CHECKING CIRCUITS WHEN FALSE

ROUTINE 01 IS CONCERNED WITH AREA ISOLATING FAILURES ASSOCIATED WITH THE PRINT BUFFER. THIS OBJECTIVE IS ACCOMPLISHED BY INVESTIGATING THE NINE COMMON DATA LINES -- P, 0, 1, 2, 3, 4, 5, 6, 7-- IN THE 1403 UNIVERSAL CHARACTER SET DATA PATH, WITHOUT ATTEMPTING TO USE THE UNIVERSAL CHARACTER BUFFER. WITH EACH OF THESE LINES MADE ACTIVE, THE FOLLOWING SEQUENCE OF OPERATIONS IS PERFORMED --

- 1. WRITE PRINT BUFFER
- A. SAVE STATUS
 B. SAVE SENSE DATA
 2. DIAGNOSTIC CHECK READ
- 3. READ PRINT BUFFER

THE DATA IS INTERROGATED AS ACCUMULATED BY AN ANALYSIS ROUTINE. AN OUTPUT MESSAGE WILL INDICATE THE RESULTS OF THIS ANALYSIS AS AN ERROR NUMBER OR NO ERRORS FOUND. IF AN ERROR NUMBER IS INDICATED, THE C.E. MUST REFER TO EITHER THE PROGRAM DESCRIPTION, OR THE PROGRAM LISTING TO DETERMINE THE ANALYSIS RESULTS. IF THE CORRESPONDING CARD ISOLATION OVERLAY IS AVAILABLE, THE PROGRAM WILL AUTOMATICALLY SEARCH FOR IT AND EXECUTE IT IN ORDER TO OBTAIN FURTHER ISOLATION.

ROUTINE 02 IS CONCERNED WITH AREA ISOLATING FAILURES ASSOCIATED ACCOMPLISHED BY INVESTIGATING THE 9 COMMON DATA LINES -- P, O, 1,2,3,4,5,6,7-- IN THE UCS BUFFER, ASSUMING THE PRINT DATA BUFFER CIRCUITS ARE OPERATIONAL. WITH EACH OF THESE LINES MADE ACTIVE, THE FOLLOWING SEQUENCE OF OPERATIONS IS PERFORMED --

1. LOAD UCS BUFFER

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A. SAVE STATUS B. SAVE SENSE DATA
2. DIAGNOSTIC WRITE A. SAVE STATUS SAVE SENSE DATA 3. DIAGNOSTIC CHECK READ

THE DATA IS INTERROGATED AS ACCUMULATED BY AN ANALYSIS ROUTINE. AN OUTPUT MESSAGE WILL INDICATE THE RESULTS OF THIS ANALYSIS AS AN ERROR NUMBER OR NO ERRORS FOUND. IF AN ERROR NUMBER IS INDICATED, THE C.E. MUST REFER TO EITHER THE PROGRAM DESCRIPTION, OR THE PROGRAM LISTING TO DETERMINE THE ANALYSIS RESULTS.

IF THE CORRESPONDING CARD ISOLATION OVERLAY IS AVAILABLE, THE PROGRAM WILL AUTOMATICALLY SEARCH FOR IT AND EXECUTE IT IN ORDER TO OBTAIN FURTHER ISOLATION. IT IS TO BE NOTED THAT IF ROUTINE 01 DETECTS A SOLID FAILURE IN THE PRINT BUFFER AND ASSOCIATED CIRCUITS: ROUTINE 02 WILL BE BYPASSED -- ROUTINE 02 WILL BE RUN ONLY WHEN NO FAILURES ARE DETECTED BY ROUTINE 01.

IN ADDITION TO THE PRINTOUT OF THE RESULTS OF THE ANALYSIS. A PRINTOUT OF THE ACCUMULATED DATA LAST USED CAN BE MADE BY SETTING SECTION SENSE SWITCH 02 TO 1 PRIOR TO RUNNING THE ROUTINE OR AFTER THE ANALYSIS PRINTOUT. THIS OPTION IS ONLY AVAILABLE WHEN AN ERROR IS DETECTED BY THE ROUTINE.

5.3 DESCRIPTION -- ROUTINE 03, PRINT BUFFER DATA REG FLT --

*** NOTE *** THIS ROUTINE WILL BE RUN ONLY WHEN ROUTINE OF DETECTS A FAILURE WITHIN THE PRINT BUFFER DATA REGISTER AREA -- OTHERWISE, IT WILL BE BYPASSED.

THE OBJECTIVE OF THIS ROUTINE IS TO CIRCUIT ISOLATE A SOLID THE DBJECTIVE OF THIS ACOUNTE 15 TO CIRCUIT 18 TO THE DESCRIPTION THE PRINT BUFFER DATA REGISTER COMPLEX — 2821 UCS ATTACHMENT —. THIS OBJECTIVE IS ACCOMPLISHED BY ATTEMPTING TO SEPARATELY ACTIVATE EACH OF THE DATA REGISTER TRIGGERS — P, 0,1,2 THROUGH 9 —. THIS IS DONE BY USING THE APPROPRIATE WRITE DATA -- I.E, HEX WRITE DATA OO IS USED TO ACTIVATE ONLY THE P TRIGGER, HEX WRITE DATA 80 IS USED TO ACTIVATE ONLY THE O TRIGGER -- ETC. FOR EACH PRINT BUFFER DATA REGISTER TRIGGER. THE FOLLOWING SEQUENCE OF OPERATIONS IS PERFORMED, AND ALL ASSOCIATED DATA IS SAVED IN MAIN STORAGE.

- 1. DIAGNOSTIC WRITE CCW COUNT EQUAL TWO A. SENSE I/O IF GOT UNIT CHECK
- TWO SUCCESSIVE DIAGNOSTIC CHECK READS FIRST BYTE
- OF SECOND READ ONLY IS SAVED
- 3. DIAGNOSTIC READ OF PRINT BUFFER CCW COUNT EQUAL ONE
 A. SENSE I/O IF GOT UNIT CHECK
 4. TWO SUCCESSIVE DIAGNOSTIC CHECK READS FIRST BYTE
- OF SECOND READ ONLY IS SAVED

AFTER ALL DATA HAS BEEN ACCUMULATED, IT IS INTERROGATED BY AN ANALYSIS ROUTINE. THIS ROUTINE IDENTIFIES A FAILURE WITHIN THE PRINT BUFFER DATA REGISTER CIRCUITS WHEN THE FOLLOWING CONDITIONS

- 1. GOT UNIT CHECK WITH CHANNEL END FOR DIAGNOSTIC WRITE. GOT PRINT BUFFER DATA REG PARITY FOR DIAGNOSTIC CHECK
- READ AFTER DIAGNOSTIC WRITE.
- 3. GOT ADDITIONAL BITS OR MISSING BITS WITH DIAGNOSTIC READ.

AN OUTPUT MESSAGE WILL INDICATE THE RESULTS OF THE ANALYSIS ROUTINE AS AN ERROR NUMBER OR NO ERRORS DETECTED. IF AN ERROR NUMBER IS INDICATED, THE C.E. MUST REFER TO THE PRINTOUT SECTION OF THIS DESCRIPTION TO DETERMINE THE ANALYSIS RESULTS.

IN ADDITION TO THE PRINTOUT OF THE RESULTS OF THE ANALYSIS, A

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PRINTOUT OF THE ACCUMULATED DATA CAN BE MADE BY SETTING SECTION SENSE SWITCH 02 TO 1 PRIOR TO RUNNING THE ROUTINE OR AFTER THE ANALYSIS PRINTOUT.

5.4 DESCRIPTION -- ROUTINE 04, UCB DATA REG FLT --

*** NOTE *** THIS ROUTINE WILL BE RUN ONLY WHEN ROUTINE 02 DETECTS A FAILURE WITHIN THE UCB DATA REGISTER AREA -- OTHERWISE, IT WILL BE BYPASSED.

THE OBJECTIVE OF THIS ROUTINE IS TO CIRCUIT ISOLATE A SOLID FAILURE WITHIN THE UCB DATA REGISTER AREA. THIS OBJECTIVE IS ACCOMPLISHED BY ATTEMPTING TO SEPARATELY ACTIVATE EACH UCB DATA REGISTER TRIGGER -- THEN, PERFORM A DIAGNOSTIC WRITE TO DETERMINE THE STATE --ON OR OFF-- OF THE TRIGGER. THE ATTEMPT TO ACTIVATE EACH TRIGGER IS ACCOMPLISHED BY PERFORMING A LOAD UCB COMMAND WITH THE APPROPRIATE WRITE DATA --IE, HEX WRITE DATA OO IS USED TO ACTIVATE ONLY THE P TRIGGER, HEX WRITE DATA 80 IS USED TO ACTIVATE ONLY THE O TRIGGER -- ETC. FOR EACH UCB DATA REGISTER TRIGGER THE FOLLOWING SEQUENCE OF OPERATIONS IS PERFORMED, AND ALL ASSOCIATED DATA IS SAVED IN MAIN STORAGE.

- 1. GATE UCS LOAD CCW COMMAND-CHAINED TO A LOAD UCB CCW A. SENSE I/O IF GOT UNIT CHECK
- TWO SUCCESSIVE DIAGNOSTIC CHECK READS FIRST BYTE
- OF SECOND READ ONLY IS SAVED 3. DIAGNOSTIC WRITE
- A. SENSE I/O IF GOT UNIT CHECK
- 4. TWO SUCCESSIVE DIAGNOSTIC CHECK READS FIRST BYTE OF SECOND READ ONLY IS SAVED

AFTER ALL DATA HAS BEEN ACCUMULATED, IT IS INTERROGATED BY AN ANALYSIS ROUTINE. THIS ROUTINE IDENTIFIES A FAILURE WITHIN THE UCB DATA REGISTER CIRCUITS WHEN THE FOLLOWING CONDITIONS EXIST.

- 1. GOT UNIT CHECK WITH CHANNEL END FOR LOAD UCB CCW
- 2. GOT UCB PARITY DURING LOAD UCB COMMAND 3. DID NOT GET PLC DURING DIAGNOSTIC WRITE

AN OUTPUT MESSAGE WILL INDICATE THE RESULTS OF THE ANALYSIS ROUTINE AS AN ERROR NUMBER OR AS NO ERRORS DETECTED. IF AN ERROR NUMBER IS INDICATED, THE C.E. MUST REFER TO THE PRINTOUT SECTION OF THIS DESCRIPTION TO DETERMINE THE ANALYSIS RESULTS.

IN ADDITION TO THE PRINTOUT OF THE RESULTS OF THE ANALYSIS, A PRINTOUT OF THE ACCUMULATED DATA CAN BE MADE BY SETTING SECTION SENSE SWITCH 02 TO 1 PRIOR TO RUNNING THE ROUTINE OR AFTER THE ANALYSIS PRINTOUT.

6. APPENDIX

6.1 UCS PRINTER COMMAND CODES

VALID COMMANDS TO THE UCS PRINTER. NOT SHOWING SPACE, SKIP * OR OTHER VARIOUS OPTIONS THAT ARE AVAILABLE.

*									
*	FUNCTION	CO	MMA	ND C	DDE B	ITS		HE	X CODE
*		0	1	2 3	4 5	67			
*	TEST I/O	0	0	0 0	0 0	0 0	 		00
*	SENSE	0	0	0 0	0 1	0 0	 		04 🛊
*	WRITE	0	0	0.0	0 0	0 1	 		01
* .	GATE UCS LOAD	1	. 1	1 0	1 0	11	 		EB
*	LOAD UCS NO FOLDING	1	1	1 1	1 0	1 1	 ٠		F8
*	LOAD UCS WITH FOLDING	. 1	. 1	1 1	0 0	1 1	 		F3
*	DIAGNOSTIC WRITE		-	:-	- 1	0 1	 		05
*	DIAGNOSTIC READ	0	0	0 0	0 0	1 0	 		02

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IBM MAINTENANCE DIAGNOSTIC PROGRAM P/N 840222 PAGE 9 2821 - 1403 UCS SCAN * DIAGNOSTIC CHECK READ . 0 0 0 0 0 1 1 0 06 WHERE - FORMS VARIATIONS ON MODIFIERS WHICH MAY BE COMBINED. ************************* 6-2 SENSE BYTE INFORMATION ************************ ONE SENSE BYTE BIT MEANING COMMAND REJECT INTERVENTION REQUIRED BUSS DUT CHECK EQUIPMENT CHECK DATA CHECK I---UNIT CHECK IN STATUS UCB PARITY CHECK UNUSUAL COMMAND SEQUENCE CHANNEL 9 HOLE SENSED ***************************** 6.3 DIAGNOSTIC CHECK READ INFORMATION *********** THE DIAGNOSTIC CHECK READ COMMAND TRANSFERS CHECK INFORMATION TO THE CPU. ONE BYTE OF DATA IS TRANSFERRED FOR EACH PRINT BUFFER POSITION. THE SIGNALS RETURNED ARE AS FOLLOWS--BIT SIGNAL NOT USED NOT USED NOT USED PRINT LINE COMPLETE 0 PRINT CHECK PRINT BUFFER PARITY CHECK *************** 0 0 0 0 16JUN65 22JUN65 124249 15JUL65 15DEC65 15MAR66 15N0V66 ID F80C-* 124263 124265 125601 125632 PAGE 0

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				e V _{ee}	
, , , , , , , , , , , , , , , , , , , 	80C5 1		DENT AND CONTROL R		·*********
	* #	ODIFICATIONS			*
		EVISION LEVEL 5.	THIS REVISION DI	FFERS FROM VERSIO)N 4 AS #
	* * *	THIS ROUTI 2. CONTROL PR	OGRAMROUTINE OVE NE WAS NOT MODIFIE OGRAMROUTINE OVE	D. RLAY 02-	* * *
	* *	DESCRIPTIO NGINEERING CHANG	NS OF ERROR NUMBER E PREREQUISITES	5 027 AND 038 WE	* *
	*	1. MACHINE	OL UNIT WITH 1403	UCS ATTACHMENT AT	* f Minimum * *
	*	2. PROGRAM None	•		*
	*	ISE DESCRIPTION F	BOC* AT E.C. 12565	5, DATED 15 NOV 6	OR LATER *
	*****	******	*******	*****	***************************************
		REVISION LEVEL 4.	THIS REVISION DI	FFERS FROM VERSION	* SA E MI
	* * * * * * * * * * * * * * * * * * * *	THIS ROUTI LATCH -ALL ISSUED BY	OGRAM - ROUTINE OV NE WAS MODIFIED TO OW DATA CHECKS- DU THE ROUTINE. THIS ALL REMAINING ROUT	TURN OFF THE DAT RING THE FIRST ST LATCH REMAINS IN	TART I/O */ N THE -OFF- *
	*	2. CONTROL PR	OGRAMROUTINE OVE NE WAS NOT MODIFIE		*
	* E	NGINEERING CHANG 1. MACHINE 2821 CONTR E.C. LEVEL 2. PROGRAM NONE	OL UNIT WITH 1403	UCS ATTACHMENT AT	MINIMUM *
	* * ↓	ISE DESCRIPTION F	80C* AT E.C. 12563	2, DATED 15 MAR	6 OR LATER *
	XF80C5 S	START 4096	*******	******	*****
001000	*	JSING *,15	SE SWITCH USAGE		
		SSW 0, LOC X004,	BIT O - LOOP ON S		
	* 5	SSW 2, LOC X004,	BIT 1 - USE UTILI BIT 2 - LOG OUT D BIT 6 - PRINT TIT	ATA TABLE	
	*	2, 200 NO34,	Inam 141		
	*****	**************************************		******	******
001000 F80C50	******** SECNO D	**************************************		**************************************	
001003 00 001004 00000000		C X*00*		ROUTINE NUMBER	
001008 0000 00100A 0000 00100C 00	ICM: C	C XL2*00*	NOT USE Interru		1ASK
	JUL65 15DE 4265 1256		15N0V66 125655		ID F80C-5 PAGE 1

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00100D	01	NUTE	DC	XL1'01'	MUMBER OF UNIT TARLE ENTRYS
					NUMBER OF UNIT TABLE ENTRYS
00100E	90	° FLAG		XL1 '90'	FLAG BITS SET BY SECTION FOR DM
00100F	00	FLAG	2 DC	XL1'00'	INTERRUPT HANDLING FLAGS
001010	010400000F	INPS		XL5 '010400000F '	INITIAL PSW
		AIRT J			THILIME LOW
001015	001A60		DC	AL3(RTNO1)	
001018	0000000000000000	EXOP	SW DC	XL8'00'	EXTERNAL OLD PSW
001020	0000000000000000	SVOP	SW DC	XL8'00'	SUPERVISOR CALL OLD PSW
001028	00000000000000000		SW DC	XL8'00'	PROGRAM OLD PSW
001030	00000000000000000	MCOP	SW DC	XL8 00 °	MACHINE CHECK OLD PSW
001038	0000000000000000	100P	SW DC	XL8.00.	I/O OLD PSW
001040	0000000000000000		DC	XL8*00*	CHANNEL STATUS WORD
001048	. 00000000	CAW	DC	XL4*00*	COMMAND ADDRESS WORD
00104C	000000000000000000000000000000000000000	נ	DC	XL12'00'	RESERVED FOR DM USE
001055	000000				
		CAND	CH DC	VI E 1 0 1 0 1 0 0 0 0 0 0 0 0 1	CYTERNAL NEW BOW
001058	010400000F		SW DC	XL5'010400000F'	EXTERNAL NEW PSW
00105D	00175C		DR DC	AL3(BREX)	
001060	00000000000000000	SVNP	SW DC	XL8'00'	SUPERVISOR CALL NEW PSW
001068	0000000000000000		SW DC	XL8*00*	PROGRAM NEW PSW
					The state of the s
001070	0000000000000000		SW DC	XL8*00*	MACHINE CHECK NEW PSW
001078	010400000F	IONP	SW DC	XL5'010400000F'	I/O NEW PSW
00107D	00138A	TONA	DR DC	AL3(SIGINT)	
					CECTION DECICTED SAVE ABEA ON HET .
001080			MP DS	24CL4	SECTION REGISTER SAVE AREA - DM USE
			本本本本本本本		****************
	Control of the second	*		SECTION PREFACE UNIT	TABLE *
1		***	****		***********
0010E0	83			XL1'83'	UNIT TYPE - 1403 PRINTER
	The state of the s				
0010E1	00	U10P		X'00'	OPTIONAL FEATURE BYTE
0010E2	8000	ULAD	DR DC	X * 8000 *	FLAGS AND CHAN/UNIT ADDRESS
		***	*****	*******	******************
		*	VARIA	BLES FOR START I/O RO	OUTINE - WORD BOUNDARY +.
		****			************
0010E4				0-4	ALTON ON HORD ROUNDARY
				0,4	RI THRU R9 SAVED HERE BY SIO
0010E4 1		2104	R1 DC	9F'00'	KT INKO KA ZWAED HEKE BA 210
0010E8	00000000				
0010EC	00000000				
0010F0	00000000				
0010F4	00000000				
0010F8	00000000				
0010FC	00000000				
001100	0000000				
001104	00000000				
001108	00000000	VOTZ	R4 DC	F*00*	CC SAVED HERE FOR ORIG \$10
				F*00*	
001100	00000000		R9 DC		100 MILLI-SEC CONSTANT SAVED HERE
001110	0000000		R7 DC	F'00'	CC SAVED HERE FOR SENSE SIO
		***	****	*****	************
		*	VARIA	BLES FOR SIO ROUTINE	- NO BOUNDARY *
		***			**********
001114	00000000	SIOV	R2 DC	F*00*	SEC PREF CAW SAVED HERE BY SIO
001118		* 210A	R3 DC	2F'00'	CSW SAVE AREA FOR ORIG SIO
00111C	00000000				
001120	00	SENS	É DC	X*00*	SENSE DATA STORED HERE
001121	00		EY DC	X1001	CAW KEY STORED HERE
001122	. 00		WS DC	X'00'	SIO SWITCHES
001123	C961D640C1C4C4D940) SIOM	S1 DC	C'I/O ADDR XXX CAW'	CCO BUT NO INTERRUPT MESSAGE
00112C	E7E7E740C3C1E6		I .	the second secon	
001133	40E7E7E7E7E7E7E7E7		DC	C * XXXXXXXX GOT CC *	
		,		- AMAMAMA GUI CC.	
00113C	40C7D6E340C3C3	14			
001143			DC	C'O BUT NO INTERRU'	· ·
)		O O DOI NO ENTERNO	
001140	F040C2E4E340D5D640)	, ,	O O DOT NO INTERNO	
001140	F040C2E4E340D5D640 C9D5E3C5D9D9E4)	ř .		
001153	F040C2E4E340D5D64C C9D5E3C5D9D9E4 D7E3		DC	C*PT*	
001153 001155	F040C2E4E340D5D64C C9D5E3C5D9D9E4 D7E3 00	SIOV	DC R6 DC	C*PT*	
001153	F040C2E4E340D5D64C C9D5E3C5D9D9E4 D7E3	SIOV	DC	C*PT*	
001153 001155 001156	F040C2E4E340D5D64C C9D5E3C5D9D9E4 D7E3 00 C961D640C1C4C4D94C	SIOV	DC R6 DC	C*PT*	
001153 001155 001156 00115F	F040C2E4E340D5D64C C9D5E3C5D9D9E4 D7E3 00 C961D640C1C4C4D94C E7E7E740C3C1E6	VOIS MOIS C	DC R6 DC S2 DC	C*PT* X*00* C*I/O ADDR XXX CAW*	
001153 001155 001156 00115F 001166	F040C2E4E340D5D64C C9D5E3C5D9D9E4 D7E3 00 C961D640C1C4C4D94C E7E7E740C3C1E6 40E7E7E7E7E7E7E7E7E	VOIS MOIS C	DC R6 DC	C*PT*	
001153 001155 001156 00115F 001166 00116F	F040C2E4E340D5D64C C9D5E3C5D9D9E4 D7E3 00 C961D640C1C4C4D94C E7E7E74C3C1E6 40E7E7E7E7E7E7E7E7E7 40C7D6E340C3C3	SIOV SIOM	DC R6 DC S2 DC	C'PT' X'00' C'I/O ADDR XXX CAW' C' XXXXXXXX GDT CC'	
001153 001155 001156 00115F 001166	F040C2E4E340D5D64C C9D5E3C5D9D9E4 D7E3 00 C961D640C1C4C4D94C E7E7E740C3C1E6 40E7E7E7E7E7E7E7E7E	SIOV SIOM	DC R6 DC S2 DC	C*PT* X*00* C*I/O ADDR XXX CAW*	
001153 001155 001156 00115F 001166 00116F 001176	F040C2E4E340D5D64C C9D5E3C5D9D9E4 D7E3 00 C961D640C1C4C4D94C E7E7E740C3C1E6 40E7E7E7E7E7E7E7 40C7D6E340C3C3 F140C3E2E640E2E3C1	SIOV SIOM	DC R6 DC S2 DC	C'PT' X'00' C'I/O ADDR XXX CAW' C' XXXXXXXX GDT CC'	
001153 001155 001156 00115F 001166 00116F 001176	F040C2E4E340D5D64C C9D5E3C5D9D9E4 D7E3 00 C961D640C1C4C4D94C E7E7E740C3C1E6 40E7E7E7E7E7E7E7E7E7E7 40C7D6E340C3C3 F140C3E2E640E2E3C1 E3E4E240E7E7E7	SIOV SIOM	DC R6 DC S2 DC DC	C'PT' X'00' C'I/O ADDR XXX CAW' C' XXXXXXXX GOT CC' C'1 CSW STATUS XXX'	
001153 001155 001156 00115F 001166 00116F 001176	F040C2E4E340D5D64C C9D5E3C5D9D9E4 D7E3 00 C961D640C1C4C4D94C E7E7E740C3C1E6 40E7E7E7E7E7E7E7 40C7D6E340C3C3 F140C3E2E640E2E3C1	SIOV SIOM	DC R6 DC S2 DC	C'PT' X'00' C'I/O ADDR XXX CAW' C' XXXXXXXX GDT CC'	
001153 001155 001156 00115F 001166 00116F 001176	F040C2E4E340D5D64C C9D5E3C5D9D9E4 D7E3 00 C961D640C1C4C4D94C E7E7E740C3C1E6 40E7E7E7E7E7E7E7E7E7E7 40C7D6E340C3C3 F140C3E2E640E2E3C1 E3E4E240E7E7E7	SIOV SIOM	DC R6 DC S2 DC DC	C'PT' X'00' C'I/O ADDR XXX CAW' C' XXXXXXXX GOT CC' C'1 CSW STATUS XXX'	
001153 001155 001156 00115F 001166 00116F 001176 00117F	F040C2E4E340D5D64C C9D5E3C5D9D9E4 D7E3 00 C961D640C1C4C4D94C E7E7E740C3C1E6 40E7E7E7E7E7E7E7E7 40C7D6E340C3C3 F140C3E2E640E2E3C1 E3E4E240E7E7E7 E740E2D5E240E7E74C	SIOM SIOM 7	DC R6 DC S2 DC DC	C'PT' X'00' C'I/O ADDR XXX CAW' C' XXXXXXXX GDT CC' C'1 CSW STATUS XXX' C'X SNS XX '	
001153 001155 001156 00115F 001166 00116F 001176	F040C2E4E340D5D64C C9D5E3C5D9D9E4 D7E3 00 C961D640C1C4C4D94C E7E7E740C3C1E6 40E7E7E7E7E7E7E7E7E7E7 40C7D6E340C3C3 F140C3E2E640E2E3C1 E3E4E240E7E7E7	SIOM SIOM 7	DC R6 DC S2 DC DC	C'PT' X'00' C'I/O ADDR XXX CAW' C' XXXXXXXX GOT CC' C'1 CSW STATUS XXX'	1D F80C-5
001153 001155 001156 00115F 001166 00116F 001176 00117F	F040C2E4E340D5D64C C9D5E3C5D9D9E4 D7E3 00 C961D640C1C4C4D94C E7E7E740C3C1E6 40E7E7E7E7E7E7E7E7 40C7D6E340C3C3 F140C3E2E640E2E3C1 E3E4E240E7E7E7 E740E2D5E240E7E74C	SIOV 5 SIOM 7 1 1 15JUL65	DC R6 DC S2 DC DC	C'PT' X'00' C'I/O ADDR XXX CAW' C' XXXXXXXX GDT CC' C'1 CSW STATUS XXX' C'X SNS XX '	
001153 001155 001156 00115F 001166 00116F 001176 00117F	F040C2E4E340D5D64C C9D5E3C5D9D9E4 D7E3 00 C961D640C1C4C4D94C E7E7E740C3C1E6 40E7E7E7E7E7E7E7E7E7E7E7E7E7E7E7E7E7E7E7	SIOV 5 SIOM 7 1 1 15JUL65	DC R6 DC S2 DC DC DC	C'PT' X'00' C'I/O ADDR XXX CAW' C' XXXXXXXX GOT CC' C'1 CSW STATUS XXX' C'X SNS XX ' 15MAR66 15NOV66	1D F80C-5

M MAIN	TENANCE DIAGNOSTIC PROG	RAM		P/N 840223 PAGE 2	IBM MAI	NTENANCE DIAGNOSTIC	PROGRAM		P/N 840 PAGE
	2821 SCAN, 1403 UNIVERS ESIDENT AND CONTROL ROU		T			2821 SCAN, 1403 UN RESIDENT AND CONTRO			
118F	D4C1D2C540D7D9C9D5	DC	C'MAKE PRINTER RDY		001248	91 80 F 004	TI		BR IF SEC SS 00 IS 1 - LOOP \$10
1198 119F	E3C5D940D9C4E8	STATSV DC	X*0000*	2ND STATUS SAVE AREA	0012AC 0012B0	47 10 F 232 OA DD		VC X*DD*	CONVERT CAW TO EBCDIC
11A4 11A8	00000000 00000000	CSWAG DC	2F 100 1	AGGREGATE CSW SAVED HERE	0012B2 0012B4	0004 0048	Di Di	C AL2(CAW-SECNO)	NO. OF HEX BYTES IN CAW HEX DATA ADDR
11AC 11B5	C961D640C1C4C4D940 E7E7E740C3C1E6	SIOMS3 DC	C'I/O ADDR XXX CAW		001286 001288	0134 D2 O2 F 12C F 75		VC SIOMS1+9(3),UAPRT	EBCDIC DATA ADDR SET PRINTER ADDR IN OUTPUT MSG
11BC 11C5	40E7E7E7E7E7E7E7 40C7D6E340C3C3	DC	C* XXXXXXXX GOT CC*		0012BE 0012C2	92 F3 F 143 0A D0		VC X'DO'	SET CC3 IN OUTPUT MSG PRINT GOT CC3 ON SIO
11CC 11D5	F040C3E2E640E7E7E7 E7E7E7E7E7E7E7	DC	C.O CZM XXXXXXXXXX		0012C4	40	D(• • • • • • • • • • • • • • • • • • •	C X'40'	PRINT PROG NO. PRIOR TO MSG TREAT AS ERROR
11DC 11E5	E7E7E7E7E7E740E2D5 E240E7E740	DC	C'XXXXXX SNS XX '				*		DO NOT CHAIN DO NOT RESTORE
11EA 11F3	C961D640C1C4C4D940 E7E7E740C3C1E6	SIOMS4 DC	C'I/O ADDR XXX CAW'		0012C5 0012C6	21 F123	D(NO. OF CHAR IN MSG (33)
11FA 1203	40E7E7E7E7E7E7E7E7 40C7D6E340C3C3	DC	C' XXXXXXXX GOT CC'		0012C8	47 FO F 232	B (GO TRY SID AGAIN
120A 1213	F040C3E2E640E7E7E7 E7E7E7E7E7E7E7	DC	C.O CZM XXXXXXXXXX				* H	ANDLE SIO CC2 HERE	
121A 1220	E7E7E7E7E7 00000000000000000	DC Siovre DC	XF8.00.	SENSE CSW SAVED HERE	0012CC 0012D0	91 10 F 108 47 10 F 2F8	SIOCOO TI		BR IF DID NOT GET CC2
		彩漆物像字形印像帘帘	**************************************	*****************	0012D4 0012D8	91 80 F 004 47 10 F 274	T)	M SNSW,X'80'	BR IF SEC SS 00 IS 1 - LOOP STO
1228			**********	ALIGN ON WORD BOUNDARY	0012DC 0012DE	0A DD 0004	S	VC X DD	CONVERT CAW TO EBCDIC NO. OF HEX BYTES IN CAW
1228 122C	90 19 F 0E4 D2 03 F 114 F 048	SIO STM	R1,R9,SIOVR1 SIOVR2(4),CAW	SAVE R1 THRU R9 SAVE CAW	0012E0 0012E2	0048 0134	D(C AL2(CAW-SECNO)	HEX DATA ADDR EBCDIC DATA ADDR IN OUTPUT MSG
1232	D7 O7 F 118 F 118 D7 OO F 120 F 120	SIDAGO XC	SIOVR3(8),SIOVR3 SENSE(1),SENSE	CLEAR CSW SAVE AREA CLEAR SENSE BYTE	0012E4	02 02 F 12C F 75	53 M	VC SIOMS1+9(3),UAPRT	SET I/O ADDR IN OUTPUT MSG
123E	54 CO F 758	N MVC	R12,CLRC	AND OUT BITS O THRU 20 OF GEN REG 12 LOAD STORAGE KEY: IN SEC PREF CAW	0012EA 0012EE	92 F2 F 143 0A D0	S		SET CC2 IN OUTPUT MESSAGE PRINT GOT CC2 ON SIO
1242	D2 00 F 048 F 121 D2 03 D 048 F 048	MVC	CAW(1), CAWKEY HCAW(4,R13), CAW	LOAD CAW	0012F0	40	D (C x 40 %	PRINT PROG NO. PRIOR TO MSG TREAT AS ERROR
124E 1252	9C 00 C 000 45 10 F 256	SIO BAL	0(R12) R1,*+4	START I/O SAVE CONDITION CODE					DO NOT CHAIN DO NOT RESTORE
1256 125A	50 10 F 108 91 80 F 122	ST TM	R1,SIOVR4 SIOSWS,X'80'	SEE IF RET TO PROG SW1 ON	0012F1 0012F2	21 F123	D(D)	C AL2(SIOMS1-BASE+REG)	NO. OF CHAR IN MSG (33) MESSAGE ADDRESS
125E 1262	47 10 F 438 91 30 F 108	BC TM BC	ALL,SIOIO6 SIOVR4,X*30°	BR IF YES SEE IF SIO CC WAS ZERO BR IF NO	0012F4	47 FO F 274	B(★		GO TRY AGAIN
1266 126A	47 50 F 2A4 0A D8	SVC	ANY,SIOBOO X°D8'	WAIT FOR I/O INTERRUPT			*	ANDLE SIO CC1 HERE	
		* COME	HERE IF DID NOT GET FI	RST INTERRUPT	0012F8 0012FC	91 80 F 004 47 80 F 346	SIODOO T	C NONE, SIODO4	BR IF SEC SS 00 IS 0 - NO LOOP ST
126C	91 80 F 004	TM TM	SNSW.X*80*	BR IF SEC SS OO IS ZERO - NO SIO LOP	001300 001304	91 FF D 045 47 50 F 274	T) B(C ANY, SIDAOL	DO TIO IF GOT ANY CH STS FOR CLEA
1270 1274 :	47 80 F 288 58 50 E 198	SIOAO1 L	NONE,SIOAO2 R5,408(R0,R14)	GET DM 10 SEC CONSTANT	001308 00130C	47 F0 F 232 D2 O2 F 15F F 7		VC SIOMS2+9(3),UAPRT	LOOP SIO ONLY SET PRINTER ADDR IN OUTPUT MSG
1278 1270	9D 00 C 000 47 80 F 232	BC_	O(R12) CCO,SIOAOO	TEST I/O REPEAT SIO IF GOT CCO	001312 001314	0A DD 0004	Di		CONVERT CAW TO EBCDIC NO. OF HEX BYTES IN CAW
1280 1284 :	46 50 F 278 47 F0 F 232	BCT BC	R5,SIOAO1+4 UNC,SIOAOO	DELAY GO REPEAT SIO	001316 001318	0048 0167	Di Di		HEX DATA ADDR EBCDIC ADDR IN OUTPUT MESSAGE
1288 128E	D2 O2 F 12C F 753 OA DD	SIDAO2 MVC SVC	SIOMS1+9(3),UAPRT X'DD'	SET PRINTER ADDR IN OUTPUT MESSAGE CONVERT CAW TO EBCDIC	00131A 001320	D2 07 F 118 D 04 OA DD		VC SIOVR3(8),HCSW(R13)	SAVE CSW CONVERT CSW STATUS TO EBCDIC
1290 1292	0004 0048	DC DC	AL2(4) AL2(CAW-SECNO)	NO OF HEX BYTES IN CAW HEX DATA ADDR	001322 001324	0002 011C	9 D(NO. OF STATUS BYTES CSW STATUS ADDR
1294 1296	0134 92 FO F 143	DC MVI	AL2(SIOMS1+17-SECNO) SIOMS1+32,X*FO*	EBCDIC DATA ADDR IN OUTPUT MESSAGE SET CCO IN OUTPUT MSG	001326 001328	0183 92 F1 F 176	D(M	C AL2(SIOMS2+45-SECNO) VI SIOMS2+32,X*F1*	EBCDIC ADDR IN OUTPUT MSG SET CC1 IN OUTPUT MSG
129A 129C	0A D0 40	SVC DC	X'00' X'40'	PRINT GOT CCO BUT NO INTERRUPT PRINT PROG NO. PRIOR TO MESSAGE	00132C 001330	91 02 F 11C 47 10 F 362	T)		GO DO SENSE I/O IF GOT UC
		*		TREAT AS ERROR DO NOT CHAIN	001334 001336	0A D0 40	S	VC X'DO' C X'40'	PRINT GOT CC1 ON SIO - NO UC PRINT PROG NO. PRIOR TO MSG
1290	32	* DC	X'32'	DO NOT RESTORE NO. OF CHAR IN MSG (50)		•	*		TREAT AS ERROR DO NOT CHAIN
129E 12A0	F123 47 F0 F 274	DC B C	AL2(SIOMS1-BASE+REG) UNC,SIOA01	MESSAGE ADDRESS GO TRY AGAIN	001337	31	* Di	C X*31*	DO NOT RESTORE NO. OF CHAR IN MSG (49)
		* HANDL	E SIO CC3 HERE		001338 00133A	F156 91 FF F 11D	SIODO3 T	C AL2(SIOMS2-BASE+REG)	
1244	47 40 F 2CC	* Sioboo BC	SOME . SIOCOO	BR IF NOT CC3	00133E 001342	47 50 F 274 47 F0 F 232	B)	C ANY, SIDAO1	REPEAT SIO ONLY
					; -1 4,				
		UL65 15DEC65 265 125601	15MAR66 15NOV66 125632 125655	ID F80C-5 PAGE 2	DATE EC	16JUN65 22JUN65 124263 124249	15JUL65 15DE		ID FE PAGE



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IBM MAINTENANCE DIAGNOSTIC PROGRAM	P/N 840223 Page 3	IBM MAINTENANCE DIAGNOSTIC PROGRAM	P/N 840223 Page 3a
F80C 2821 SCAN, 1403 UNIVERSAL CHARACTER SET F80C5 RESIDENT AND CONTROL ROUTINE OVERLAY 1		F80C 2821 SCAN, 1403 UNIVERSAL CHARACTER SET F80C5 RESIDENT AND CONTROL ROUTINE OVERLAY 1	e de la constante de la consta
001346 91 FF D 045 SIDD04 TM HCSW+5(R13),X°FF° 00134A 47 50 F 30C BC ANY,SIDD02 00134E 95 0C D 044 CLI HCSW+4(R13),X°0C° 001352 47 60 F 30C BC UNEQ,SIDD02 001356 91 40 F 122 TM SIDSWS,X'40° 00135A 47 10 F 438 BC ALL,SIDI06 00135E 47 FO F 3C2 BC UNC,SIDI02 001362 45 70 F 47E SIDE00 BAL R7,SIDF00 001366 OA DD SVC X'DD°	BR IF GOT ANY CHAN STATUS SEE IF GOT CE + DE ONLY BRANCH IF NO SEE IF RETURN TO PROG ON IMMED OP BRANCH IF YES GO INDICATE ERROR GO DO SENSE I/O CONVERT SENSE DATA TO EBCDIC	00140C 91 FF F 1A9 SIDIO5 TM CSWAG+5,X*FF* BR 001410 47 50 F 44C BC ANY,SIDIO8 001414 91 02 F 1A8 TM CSWAG+4,X*02* BR 001418 47 80 F 438 BC NONE,SIDIO6 00141C 45 70 F 47E BAL R7,SIDFOO GC 001420 91 A2 F 120 TM SENSE,X*A2* BR 001424 47 50 F 43E BC ANY,SIDIO7	O TRY AGAIN R IF GOT ANY CHAN STATUS R IF DID NOT GET UNIT CHECK O DO SENSE OP R IF GOT COMM REJ, BUS OUT PARITY, OR INVALID SEQUENCE URN ON INTERV REQ SW
001366 OA DD SVC X'DD' 001368 0001 DC AL2(1) 00136A 0120 DC AL2(SENSE-SECNO) 00136C 018C DC AL2(SIOMS2+54-SECNO) 00136E 91 40 F 120 TM SENSE,X'40' 001372 47 10 F 380 BC ALL,SIOE01 001376 OA DO SVC X'DO' 001378 40 DC X'40'	NO. OF SENSE BYTES SENSE DATA ADDR D) EBCDIC DATA ADDR IN OUTPUT MSG BR IF GO INTERV REQ ,, GOT CC1 ON SIO WITH UC + NO INTV REQ PRINT PROG NO. PRIOR TO MESSAGE TREAT AS ERROR DO NOT CHAIN	00142C 91 40 F 120 TM SENSE,X*40* BR 001430 47 10 F 438 BC ALL,SID106 001434 97 01 F 122 XI SIDSWS,X*01* TU 001438 98 19 F 0E4 SID106 LM R1,R9,SIDVR1 RE 00143C 07 FB BCR UNC,R11 RE 00143E 45 30 F 45A SID107 BAL R3,SID109 GC 001442 0A DD SVC X*DO* GC	R IF GOT INTERV REQ ,, URN OFF INTERV REQ SW ESTORE R1 THRU R9 ETURN TO PROGRAM O SET UP PRINTOUT OT COMMAND REJ, BUS-OUT PARITY, AND/OR INVALID SEQ WITH CCO RINT PROG NO. PRIOR TO MESSAGE
001379 38	REPEAT SIO PRINT GOT CC1 ON SIO - UC + INTY REQ MAKE PRINTER READY I/O ADDR IN GR12 PRINT: PROG NO. PRIOR TO MSG TREAT AS ERROR DO NOT CHAIN DO NOT RESTORE NO. OR CHAR IN MSG (73)	* DC X*3F* DC O01445 3F DC O01446 F1AC DC AL2(SIOMS3-BASE+REG) ME O01448 47 F0 F 274 BC UNC,SIDAO1 GC O0144C 45 30 F 45A SIOI08 BAL R3,SIOI09 GC O01450 OA DO SVC X*DO* GC O01452 40 DC X*4O* PR TE TE TE TE TE TE TE TE TE TE TE TE TE	REAT AS ERROR O NOT CHAIN O NOT RESTORE O. OF CHAR IN MSG (62) ESSAGE ADDRESS O TRY SIO AGAIN O SET UP PRINTOUT OT CHANNEL STATUS WITH CCO RINT PROG NO. PRIOR TO MESSAGE REAT AS ERROR O NOT CHAIN O NOT RESTORE
001386 47 FO F 274 BC UNC,SIDA01 * HANDLE SID CCO HERE *	CONTINUE BR IF SEC SS OO IS 1 - LOOP SIO	001453 36 DC X'36' NC 001454 F1AC DC AL2(SIDMS3-BASE+REG) ME 001456 47 F0 F 274 BC UNC,SIDAO1 GC 00145A D2 02 F 1B5 F 753 SIDIO9 MVC SIDMS3+9(3),UAPRT SE	O. OF CHAR IN MESSAGE (54) ESSAGE ADDRESS O TRY SIO AGAIN ET PRINTER ADDR IN OUTPUT MESSAGE
00138E 47 10 F 274 001392 D2 07 F 118 D 040 MVC SIOUR3(8), HCSW(R1: 001398 91 20 F 122 TM SIDSWS,X'20' 00139C 47 10 F 438 BC ALL,SIOI06 0013A0 D7 01 F 19F F 19F XC STATSV(2), STATSV 0013A6 58 40 F 10C L R4,SIOUR9 0013AA 46 40 F 3B2 SIOI00 BCT R4,SIOI01 0013AE 47 F0 F 3CC BC UNC,SIOI03 0013B2 9D 00 C 000 SIOI01 TIO 0(R12) 0013B6 47 80 F 3CC BC C,SIOI03 0013BA 47 40 F 3C2 BC C,SIOI03 0013BA 47 40 F 3C2 BC C,SIOI03 0013BC 47 F0 F 3AA BC UNC,SIOI00 0013C2 D6 01 F 19F D 044 SIOI02 OC STATSV(2), HCSW+4(4)	SAVE CSW BR IF RET TO PROG SW3 ON CLEAR 2ND STATUS SAVE AREA LOAD TIME CONSTATN IN GR 4 REPEAT TIO IF GR 4 NOT ZERO CONTINUE - WAITED TOO LONG FOR CCO TEST I/O BR IF GOT CCO BR IF GOT CC1 REPEAT TIO L3) SAVE 2ND STATUS	001462 0004 DC AL2(4) NO 001464 0048 DC AL2(SIDMS3+17-SECNO) HE 001466 01BD DC AL2(SIDMS3+17-SECNO) CO 001468 00 DD SVC X'DD' CO 00146A 0008 DC AL2(8) NO 00146C 01A/	ONVERT CAM TO EBCDIC O. OF HEX BYTES IN CAM EX DATA ADDR BCDIC DATA ADDR IN OUTPUT MSG ONVERT CSM TO EBCDIC O. OF HEX BYTES IN CAM EX DATA ADDR BC DATA ADDR IN OUTPUT MSG ONVERT SENSE DATA TO EBCDIC O. OF SENSE BYTES EX DATA ADDR BCDIC DATA ADDR IN OUTPUT MSG ET CCO IN OUTPUT MESSAGE ETURN
0013C8 47 F0 F 3AA 0013CC 91 04 F 122 0013D0 47 80 F 3EA 0013D4 58 40 F 10C 0013D8 9D 00 C 000 0013DC 47 80 F 3E6 0013E6 46 40 F 3D8 0013E6 46 40 F 3D8 0013EA D2 07 F 1A4 F 118 0013EA D2 07 F 1A4 F 118 0013F0 U6 01 F 19F D 044 0013F0 U6 01 F 1A8 F 19F 0013F0 U6 01 F 1A8 F 19F 0013F0 U6 01 F 1A8 F 19F 0013F0 U6 01 F 1A8 F 19F 0013F0 U6 01 F 1A8 F 19F 0013F0 U6 01 F 1A8 F 19F 0013F0 U6 01 F 1A8 F 19F 0013F0 U6 01 F 1A8 F 19F 0013F0 U6 01 F 1A8 F 19F 0013F0 U6 01 F 1A8 F 19F 0013F0 U6 01 F 1A8 F 19F 0013F0 U7 C SNAG(4), STATSV 0013F1 47 10 F 40C 0013F2 47 30 F 45A 001404 40 ** ** ** ** ** ** ** ** **	REPEAT TIO SEE IF WANT DELAY BR IF NO SET UP FOR DELAY TEST I/O BR ON ANY CC BUT 1 13) SAVE CSW STATUS BR IF NOT END OF DELAY DEVELOP AGGREGATE CSW ,, BR IF GOT CE + DE GO SET UP PRINTOUT DID NOT GET CE AND/OR DE PRINT PROG NO PRIOR TO MESSAGE TREAT AS ERROR DO NOT CHAIN DO NOT RESTORE NO. OF CHAR IN MSG (54) G) MESSAGE ADDRESS	**************************************	**************************************
DATE 16JUN65 22JUN65 15JUL65 15DEC65 15MAR66 15NOV66 25 25 25 25 25 25 25 25 25 25 25 25 25	ID F80C-5 PAGE 3	DATE 16JUN65 22JUN65 15JUL65 15DEC65 15MAR66 15NOV66 EC 124263 124249 124265 125601 125632 125655	ID F80C-5 PAGE 3A

IBM MAIN	TENANCE DIAGNOSTIC PROGRAM		P/N 840 PAGE	223 IBM MA	INTENANCE DIAGNOSTIC PROGRAM			P/N 840223 PAGE 4A
	2821 SCAN, 1403 UNIVERSAL			F80C	2821 SCAN, 1403 UNIVERSAL	CHARACTER SET		n in the Apage of
F80C5 R	RESIDENT AND CONTROL ROUTIN	E UVERLAY I			RESIDENT AND CONTROL ROUTIN			음마님 그렇게 선명들만 살인
0014C0 0014C4	92 F3 F 20A 47 10 F 4F6	MVI SIOMS4+32,X°F3° BC ALL,SIOFO2	SET CC3 IN OUTPUT MESSAGE BR IF GOT CC3	00158E				
001408	92 F2 F 20A	MVI SIOMS4+32,X°F2°	SET CC2 IN OUTPUT MESSAGE	001597 0015A0	00000000000000000		•	and the second of the second o
0014CC 0014D0	91 20 F 110 47 10 F 4F6	BC ALL,SIOFO2	BR IF GOT CC2	0015A9 0015B2				
0014D4 0014D8	92 F1 F 20A D2 OA F 210 F 17C	MVI SIOMS4+32,X'F1' MVC SIOMS4+38(11),SIOMS2+	SET CC1 IN OUTPUT MESSAGE 38 SET UP OUTPUT MESSAGE	001588	00000000000000000			***************************************
0014DE 0014E4	D2 07 F 220 D 040 OA DD	MVC SIOVRB(B),HCSW(R13) SVC X*DD*	SAVE CSW CONVERT CSW STATUS TO PRINTABLE	0015C4 0015C0	00000000000000000			
0014E6	0002	DC AL2(2)	NO. OF STATUS BYTES	0015D6 0015DF	00000000000000000 00000000000000000			
0014E8 0014EA	0224 0217		CSW STATUS ADDRESS PRINTABLE DATA ADDRESS	0015E8 0015F1	00000000000000000			
0014EC 0014EE	0A D0 40	SVC X*DO*	GOT CC1 FOR SENSE ,, ERR MESSAGE	0015FA	00000000000000000	,		
0014EF	31	DC X'31'	,, 49 CHARACTERS	001603 001600		· · · · · · · · · · · · · · · · · · ·		
0014F0 0014F2	F1EA 47 F0 F 552	BC UNC,SIOFO8	,, ADDRESS OF MESSAGE GO TRY S'ENSE AGAIN	001615 001618				
0014F6 0014F8	0A D0 40	SIDFO2 SVC X*DO*	GOT CC2 OR CC3 FOR SENSE	001627	00000000000000000	•		
0014F9	21 F1EA	DC X'21' DC AL2(SIOMS4-BASE+REG)	,, 33 CHARACTERS ,, ADDRESS OF MESSAGE	001630 001639	000000000000000000			
0014FA 0014FC	47 FO F 552	BC UNC,SIDFO8	GO TRY SENSE AGAIN	001642 001648				
001500 001506	D7 O7 F 220 F 220 58 40 E 198	SIDF03 XC SIDVR8(8),SIDVR8 L R4,408(R0,R14)	CLEAR SENSE CSW SAVE AREA GET DM TEN SEC TIME CONSTANT	001654	00000000000000000			
00150A 00150E	9D 00 C 000 47 40 F 51A	SIGF04 TIO 0(R12) BC CC1,SIGF05	TEST 1/O BR IF CSW STORED	001650				
001512	46 40 F 50A	BCT R4,SIOFO4	LOOP TIO FOR MAX OF TEN SEC	00166F		******	*******	**********
001516 00151A	47 FO F 520 D6 07 F 220 D 040	BC UNC,SIOF05+6 SIOF05 OC SIOVRB(8),HCSW(R13)	CONTINUE SAVE CSW		The state of the s	* UTILITY R	OUTINE	* ******************************
001520 001524	91 FF F 225 47 50 F 538	TM SIOVR8+5,X*FF* BC ANY,SIOFO6	BR IF ANY CHANNEL STATUS	001676		CNOP 0,4		• • • • • • • • • • • • • • • • • • • •
001528	91 OC F 224	TM SIOVR8+4,X°OC°	BR IF DID NOT GET CE + DE	001676 001678		BCR 0.0 SCPROO STM R9.	R12,SIOVR1	SAVE R9 THRU GR12
00152C 001530	47 CO F 538 91 F3 F 224	BC ZNEG,SIOFO6 TM SIOVR8+4,X*F3*	BR IF NOT ANY OTHER UNIT STATUS	001670		SCPRIO SVC X'D		PRESS CONSOLE STOP, ENTER CCW DATA
001534 001538	47 80 F 54A OA DD	BC NONE,SIOFO7 SIOFO6 SVC X'DD'	CONVERT CSW TO PRINTABLE	*		*		1. ENTER OP IN GR 10 - BYTE 2 - 2. ENTER CCW FLAGS: IN GR10 -
00153A	0008	DC AL2(8)	., NO. OF CSW BYTES TO BE CONVERT	ED		*		BYTE 3 - BIT 0 - NOT USED
00153C 00153E	0220 0210	DC AL2(SIOVR8-SECNO) DC AL2(SIOMS4+38-SECNO)	,, SENSE CSW ADDRESS ,, PRINTABLE DATA ADDRESS			*		BIT 1 - NOT USED
001540 001542	0A D0 40	SVC X*DO* DC X*40*	GOT CCO FOR SENSE, BUT WRONG STATU	S		*		BIT 2 - SLI BIT 3 - SKIP
001543	36	DC X'36'	,, 54 CHARACTERS			*		BIT 5 - NOT USED 3. ENTER DATA FIELD CONTENTS IN
001544 001546	F1EA 47 F0 F 552	DC AL2(SIOMS4-BASE+REG) BC UNC,SIOF08	,, ADDRESS OF MESSAGE GO TRY SENSE AGAIN			* 1		GR 11 - BYTES O THRU 3 - 4. ENTER CCW COUNT IN GR 12
00154A 001550	D2 03 F.048 F 114	SIOFO7 MVC CAW(4),SIOVR2 BCR UNC,R7	RESTORE ORIGINAL CAW RETURN			*		-BYTES O AND 1-
001552	58 40 E 198	SIDF08 L R4,408(R0,R14)	GET DM TEN SEC TIME CONSTANT	·		*	•	5. ENTER DEVICE ADDRESS IN GR 12 -BYTE 2, BITS 5-6-7, AND BYTE 3
001556 00155A	9D 00 C 000 47 80 F 49A	TIO O(R12) BC CCO,SIOFO1	TEST 1/O REPEAT SENSE IF GOT CC O			*		6. SET SEC SS 00 TO 1 TO LOOP, OR SET TO ZERO FOR 1 PASS-
00155E 001562	46 40 F 556 47 F0 F 49A	BCT R4,SIOFO8+4 BC UNC,SIOFO1	REPEAT TIO FOR TEN SEC MAX GO TRY SENSE AGAIN	•	•	*		7. PRESS CONSOLE START
		********************************** * CCW-S USED BY SIO ROUTINE	**********	**		*		8. TO EXIT THIS RTN PRESS CONSOLE STOP, SET SEC SS OO AND 01 TO
	A) AA1150 CTAT : 100	*********	********	001678	80	* DC X*8	0*	ZERO, THEN PRESS CONSOLE START
001568	04 001120 0000 0001	SNSCCW CCW X°04°, SENSE, X°00°, 1 ************************	SENSE CCW 水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水	00167F	27	DC X 2		,, 39 CHARACTERS ,, ADDRESS OF MESSAGE
		* VARIABLES FOR UTILITY ROUTI	NE - DOUBLE WORD BOUNDARY	* 001680 001682	58 CO F 720	L R12	,SCPRK3	SET GR 12 TO ONES
001570	00 00157C 0000 0000	SCPCCW CCW X'00', SCPDAT, X'00',00	UTILITY ROUTINE CCW	001686			SCPRK3	SEE IF GR 12 WAS ALTERED BR IF NO
		************************* * VARIABLES FOR UTILITY ROUTI	**************************************	* 00168E	91 40 F 004	TM SNS	W.X*40*	BR IF SEC SS 01 IS 1 - USE UTILITY
001578	00000000	**************************************	**************************************	001696	98 9C F 0E4	SCPR30 LM R9,		RESTROE GR 9 THRU GR 12
~~****		*************	李章帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝	001694			(4),SIOVR2	RESTORE ORIGINAL CAW RETURN TO PROGRAM
		李宗帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝	************************	001642	91 40 F 004	SCPR40 TM SNS	W,X1401 ,SCPR20	BR IF SEC SS 01 IS 1 - USE UTILITY
00157C 001585	00000000000000000	SCPDAT DC XL250*0*	SCOPE ROUTINE DATA FIELD	0016A6 0016A6	47 FO F 696	BC UNC	SCPRZU SCPRX4	RETURN TO PROGRAM SET UP CCW
	16JUN65 22JUN65 15JUL6		ID F80	1)(1)	16JUN65 22JUN65 15JUL6	55 15DEC65 15	MAR66 15NOV66	ID F80C-5
DATE EC	16JUN65 22JUN65 15JUL6 124263 124249 124269		ID F80 PAGE	DATE EC	16JUN65 22JUN65 15JUL6 124263 124249 124265		MAR66 15NOV66 5632 125655	ID F80C PAGE



M MAIN	TENANCE DIAGNOSTIC PROGRA	М		•	P/N 840223 PAGE 5	IBM MAIN	TENANCE D	IAGNOSTIC	PROGRAM			P/N 840 PAGE
F80C 30C5 R	2821 SCAN, 1403 UNIVERSAL ESIDENT AND CONTROL ROUTI	CHARACTER SET	,			F80C F80C5 F	2821 SCAN ESIDENT A	, 1403 UNI ND CONTROL	VERSAL CHAR ROUTINE OV	ACTER SE ERLAY 1	Т	
016B2 016B8 016BC 016C2 016C6 016CC 016DC 016DC 016E0	D2 00 F 570 F 57A 92 30 F 574 D4 00 F 574 F 578 50 C0 F 578 D2 01 F 576 F 578 D5 01 F 576 F 74F 47 00 F 60C D2 01 F 576 F 74F 50 80 F 578 D2 03 F 57C F 578 D2 F 576 F 578	MVI S NC S ST MVC S CLC S BC MVC S SCPR51 ST MVC S	SCPCCW(1),SCPRK4+2 SCPCCW+4,X'30' SCPCCW+4(1),SCPRK4+3 K12,SCPRK4 SCPCCW+6(2),SCPRKA SCPRK4(2),SCPRKA HIGH,SCPR51 SCPCCW+6(2),SCPRKA K11,SCPRK4 SCPCA+(4),SCPRKA SCPDAT(4),SCPRK4	CHECK IF CCW COUNT OVER BR IF NOT FORCE CCW COUNT TO 250 SET UP DATA FIELD	250	00176C 001805 001806 001807 001808 001809 00188E 001927 001928 001929	00 00 00 00 00		CEST DEST AGST SNSE CKRD RDAR CKDA EXPE	EA DS AT DC AT DC DC AT DC AR DS TA DC CT DC SW DC	153C X'00' X'00' X'00' 133C 153C X'00' X'00'	WRITE AREA CHAN END STATUS DEV END STATUS COMBINED CHAN + DEV END STATUS SENSE DATA CHECK READ AREA DATA READ AREA TEMPORARY CK READ DATA STORAGE AREA TO TEST FOR EXPECTED BIT PROGRAM SWITCHES ,, BIT 0 - 1ST PRINT PASS ,, BIT 1 - RUN ROUTINE
016EC 016F0 016F4	41 90 F 570 : 50 90 F 048 D2 00 F 048 F 121	SCPR70 LA F	(/O FOR UTILITY ROUTE R9,SCPCCW R9,CAW CAW(1),CAWKEY	SET UP CAW				00157 00157		R EQU R EQU	SCPDAT SCPDAT	,, BIT 2 - SKIP LOG OUT OF ,, ,, CHECK + DATA READS ,, BIT 7, -WRITE C.E. PARITY UCB BUFFER LOAD AREA COMPARE DATA AREA
016FA 01700 01704 : 01708 0170C 01710 01714 : 01718 01716	D2 03 D 048 F 048 9C 00 C 000 9D 00 C 000 47 70 F 704 91 80 F 004 47 10 F 6FA 91 40 F 004 47 10 F 67C 47 F0 F 696	SIO (SCPR90 TIO (S	NTS FOR UTILITY ROUTI	LOAD CAM START I/O TEST I/O REPEAT TIO IF NGT CCO BR IF SEC SS 00 IS 1 - L "" BR IF SEC SS 01 IS 1 - U "" RETURN TO PROGRAM ************************************	SE UTILITY	00192A 00192E 001932 001936 00193A 00193E 001944 001948	45 BO F	936 678 004 944 57C F 76D 946 57C F 74F		TM BC BAL 1 TM BC MVC BAL MVC BAL	LOGOUT INFORMATION SNSW,X°40° NONE,EXIT1 R8,SCPRO0 SNSW,X°20° NONE,EXIT2 OUTPUT(66),WRAREA+1 R11,GO OUTPUT(66),WRAREA+67 R11,GO	ROUTINE IS SCOPE ROUTINE DESIRED BRANCH IF NO GO TO SCOPE ROUTINE IS LOGOUT OF DATA DESIRED BRANCH IF NO
01720 01720 01724	FFFFFFF 00000014	CNOP (SCPRK3 DC 3 SCPRK5 DC 3 ************************************	0,4 K*FFFFFFFF* K*00000014* *****************************	*********	******	001952 001958 00195A 00195C 00195E 001960	D2 03 F 0A DD 0004 057C 057C 91 20 F	: 57C F 805 : 929		MVC SVC DC DC DC TM	OUTPUT(04),CESTAT X'DD' AL2(04) AL2(OUTPUT-SECNO) AL2(OUTPUT-SECNO) PROGSW,X'20'	SHOULD READ DATA BE SKIPPED
01728 01731 01738 01741 01748 0174F	D7D9C5E2E240C3D6D5 E2D6D3C540E2E3 D6D7404E40C5D5E3C5 D940E4E3C9D3C9 E3EB40C4C1E3C1 OOFA	DC (SCPRKA DC (************************************	C'PRESS CONSOLE ST' C'OP + ENTER UTILI' C'TY DATA' X'OOFA' ************************************	######################################	*******	001964 001968 00196A 00196B 00196C 00196E 001974	45 BO I	= 57C F 80A		BC SVC DC DC DC MVC BAL MVC	ALL,GO2 X'DO' X'AO' X'O8' AL2(OUTPUT-BASE+REG) OUTPUT(66),CKRDAR+1 R11,GO OUTPUT(66),CKRDAR+67	BRANCH TO SKIP READ DATA
01751 01752 01753 01756 01756 01758	00 00 000000 07 00 000007FF	************* SCHNUM DC DC UAPRT DC CNOP BCR CLRC DC	**************************************	**************************************	D HERE PRINTER ADDR	00197E 001982 001988 00198C 001992 001996	45 B0 i D2 41 i 45 B0 i	= 9A6 = 57C F 887 = 9A6 = 57C F 8D1 = 9BC		BAL MVC BAL MVC BC F1A SVC TM BC	R11,G0 OUTPUT(66),RDAR+1 R11,G0 OUTPUT(66),RDAR+67 UNC,G01 X*DA* SNSW,X*40* NONE,EXIT2	IS SCOPE ROUTINE DESIRED BRANCH IF NO
0175C 0176G	92 FF F 751 OA D6	* ************************************	COME HERE IF OPERATOR ************************************	ABORTS PROGRAM ******************************** SET SEARCH NO. FOR BUFFE ROUTINE EXIT	R RESTORE	0019A0 0019A4 0019A6 0019A8 0019AA	45 80 I OA DO OA DD 0042 057C 057C		EXII * GO	BAL F2 SVC SVC DC DC DC SVC	R8,SCPROO X'D6' X'DD' AL2(66) AL2(OUTPUT-SECNO) AL2(OUTPUT-SECNO) X'DO'	GO TO SCOPE ROUTINE EXIT FROM ROUTINE
	00176C	ORG ********** ******** * ROUTINES, * ************	SECNO+1900 ***********************************	*********	**************************************	0019AE 0019B0 0019B1 0019B2 0019B6 0019B6 0019B7 0019B8	OA DO AO 42 F57C OA DO AO 42 F 5BE O7 FB			DC DC DC SVC DC DC DC DC BCR	X*A0* X*42* AL2(OUTPUT-BASE+REG) X*D0* X*A0* X*42* S(OUTPUT+66) UNC,R11	

	NTENANCE DIAGNOSTIC PROGRAM		P/N 840223 PAGE 6	IBM MAI	NTENANCE DIAGNOSTIC PE	ROGRAM		P/N 8402 Page
	2821 SCAN, 1403 UNIVERSAL CHARACTER SI RESIDENT AND CONTROL ROUTINE OVERLAY 1	!T			2821 SCAN, 1403 UNIVERESIDENT AND CONTROL I			
0019C0 0019C2 0019C3 0019C4 0019C6 0019CA	OA DO SVC 80 DC DC 01 DC F 126 DC 47 F0 F 996 BC OA DO GD2 SVC 80 DC	X'DO' X'80' X'01' S(SIOMS1+3) UNC,EXITIA X'DO' X'80'		001A78 001A7A 001A7C 001A80 001A84	OA D5 1B DD 91 40 E 196. 47 80 F A86 18 DF 47 80 F A94	SVC INITO5 SR TM BC LR BC	X'D5' R13,R13 406(14),X'40' NONE,*+6 R13,R15 NONE,INIT10	BYPASS TESTS IF NOT UCS PRINTER CLEAR REGISTER 13 LOAD REG 13 WITH THE CONTENTS ,, OF REG 15 IF RUNNING ,, IN PROBLEM STATE BRANCH TO SKIP TITLE PRINTOUT
0019CD 0019CE 0019D0 0019D4	08 DC F57C DC 94 DF F 929 NI 47 F0 F 996 BC	X*08* AL2(OUTPUT-BASE+REG) PROGSW,X*DF* UNC,EXITIA	RESET SKIP READS LOG OUT SWITCH	001A8A 001A8E 001A90	91 02 F 004 0A D0 80	TM SVC DC	SNSW, X * 02 * X * DO * X * 80 *	IS TITLE PRINTOUT DESIRED PRINT TITLE
		ROUTINE TO CHECK ALL	POSITIONS FOR BITS -CHECK READ AREA-	001A91 001A92	20 FE08	DC DC	X'20' AL2(TITLE1-BASE+REG)	,, 32 CHARACTERS ,, ADDRESS OF TITLE
0019D8 0019DA 0019DE 0019E2	18 25 BITCKO LR 43 02 F 809 BITCK1 IC 42 00 F 927 STC 44 10 F 9F6 EX	R2,R5 R0,CKRDAR(2) R0,CKDATA R1,EXTM	SET INDEX TO MAXIMUM COUNT GET A CHECK READ CHARACTER 18 CHECK FOR REQUIRED BIT	001A94 001A96 001A97 001A98	0A D0 04 2C FE49	INITIO SVC DC DC DC	X°DO* X°O4* X°2C* AL2(WARN-BASE+REG)	PRINT MESSAGE-WARNING NOT TO USE DEVICE UNDER TEST AS THE OUTPUT DEVICE
0019E6 0019EA 0019EE 0019F0 0019F4 0019F6	47 10 F 9F0 46 20 F 9DA BCT 07 FB 41 BB 0 004 BITCK2 LA 07 FB 91 00 F 927 EXTM TM # D2 00 F 805 F 11C SAYSTA MYC	ALL, BITCK2 R2, BITCK1 UNC, R11 R11, 4(R11, 0) UNC, R11 CKDATA, X. 00 • OPS TO SAVE STATUS AN CESTAT(1), CSNSAV+4		001A9A 001A9C 001AA0 001AA4 001AA6 001AAC 001AAE 001ABO	1B 00 ' 91 10 E 180 47 80 F AAA 09 0F 42 00 F 121 0A DD 0002 00E2 0752	SR TM BC ISK STC INIT20 SVC DC DC DC	RO.RO 384(14).X*10* NONE.INIT20 RO.R15 RO.CAWKEY X*DD* AL2(2) AL2(U1ADDR-SECNO) AL2(UAPRT-1-SECNO)	CLEAR REGISTER O IS STORAGE PROTECT ON SYSTEM BRANCH IF NOT PUT STORAGE KEY IN REG O SAVE STOR KEY FOR PROGRAM USE CONVERT PRINTER ADDR TO PRINT CHAR 1. 2 BYTES 1. ADDRESS OF PRINTER ADDRESS 1. ADDRESS OF PLACEMENT
001A00 001A06 001A0C	D2 00 F 806 F 19F MVC D2 00 F 807 F 1A8 MVC D2 00 F 808 F 120 MVC 07 FB BCR	DESTAT(1), STATSV AGSTAT(1), CSWAG+4 SNSE(1), SENSE UNC, R11	SAVE CHANNEL END STATUS SAVE DEVICE END STATUS SAVE AGGREGATE STATUS SAVE SENSE DATA RETURN TO MAIN ROUTINE	001AB2 001AB6 001ABA 001ABE	41 50 0 084 91 04 F 0E1 47 80 F AC2 41 50 0 078	LA TM BC LA	R5,132(0,0) UNIT1+1,X*04* NONE,***8 R5,120(0,0)	SET REG 5 FOR 132 POSITION PRINTER IS 120 POSITION PRINTER USED BRANCH IF NOT 120 POSITION SET GEN REG 5 FOR 120 POS PRINTER
001A14 001A1A 001A1E 001A22	D7 84 F 809 F 809 READS XC 41 00 F A58 LA 50 00 F 048 ST 92 00 F 122 MVI 45 B0 F 228 BAL	ROUTINES TO DO CHECK CKRDAR (133), CKRDAR (133), CKRDAR RO, CRDCCW RO, CAW SIOSHS, X*00*	CLEAR CHECK READ AREA LOAD ADDRESS OF CHECK READ CCW RESET SIO SWITCHES	001AC2 001AC4 001AC8 001ACC 001ACE	18 00 58 10 E 198 41 20 0 064 1D 02 50 10 F 10C	SR L LA DR ST	R0,R0 R1,408(R0,R14) R2,100(0,0) R0,R2 R1,SIOVR9	CLEAR REGISTER O SET UP TIMEOUT CONSTANT FOR 100 MS SET UP DIVISOR DIVIDE TIMING CONSTANT BY 100 STORE 100 MS CONSTANT FOR USE
001A2A 001A30 001A34	45 BO F 228 BAL D7 98 F 88E F 88E READS2 XC 41 00 F A50 50 00 F 048 ST	R11,SIO RDAR(153),RDAR RO,PRRCCM RO,CAW	GO TO START I/O ROUTINE CLEAR READ AREA LOAD ADDRESS OF PRINT READ CCH	001AD2 001AD6 001ADA	91 40 F 004 47 80 F ADE 45 80 F 678	4 TM BC BAL	SNSW,X'40' NONE,UGBAOO R8,SCPROO	IS SCOPE ROUTINE DESIRED BRANCH IF NO GO TO SCOPE ROUTINE
01A38 01A3C	92 00 F 122 MVI 45 B0 F 228 BAL	\$10\$W\$,X*00* R11,\$10	RESET SID SWITCHES GO TO START I/O ROUTINE				BEGIN CHECKOUT	
01A40 01A48 01A50 01A58	02 00188F 2000 0098 PRRCCW CCW	UNC,R10 X'78',RDAR+1,X'60',1 X'02',RDAR+1,X'20',15; X'06',CKRDAR+1,X'20',1	RETURN TO MAIN ROUTINE ALLOW DATA CHECK CCW DATA READ FROM BUFFER, SLI ON JERNARY OF THE PROPERTY OF THE PR	001ADE 001AE2 001AE6 001AEA		UCBAOO LA ST MVI Bal	RO,ADCCW RO,CAW SIOSWS,XºOO° R11,SIO	LOAD ADDR OF ALLOW DATA CK + RD CO STORE CCW ADDR IN CAW RESET SIO SWITCHES GO TO SIO ROUTINE
01A60 01A60 01A61	* * CNOP 01 RTN01 DC 00 DC	ROUTINE PREFIX ROUTINE 01 0,4 XL1*01* XL1*0*	FULL WORD ALIGNMENT ROUTINE NUMBER FLAGS	001AEE 001AF2 001AF6 001AF8 001AF9	0A D0 44 07 FE7C	CLI BC SVC DC DC	CSWSAY+7,X*14* EQ,UCBA05 X*D0' X*44. X'07' AL2(ERR002-BASE+REG)	WAS CSW RESIDUAL COUNT OK BRANCH IF OK ERROR MESSAGE-CSW RESIDUAL COUNT EF
01A62 01A64 01A66 01A6A 01A6E 01A72 01A74	# DC # INITOO SR LH TM TM BC	X'FFFE' R12,R12 R12,U1ADDR UNIT1+1,X'10' ALL,INITO5	ADDRESS OF NEXT ROUTINE CLEAR REGISTER 12 LOAD PRINTER ADDR IN REG 12 IS UCS PRINTER DEFINED CONTINUE WITH TEST IF DEFINED PRINT MESSAGE-TEST BYPASSED	001AFC 001B00 001B06 001B0A 001B0E 001B12		* UCBA05 XC LA ST UCBA10 MVI BAL	WRAREA(153), WRAREA RO, SHTCCW RO, CAW SIOSWS, X*04* R11, SIO	LOAD WRITE AREA WITH BLANKS LOAD ADDR OF SHORT PRINT WRITE CCW STORE PRINT CCW ADDR IN CAW RESET SIO SWITCHES- WAIT FOR SYNC O GO TO START I/O ROUTINE
01A75 01A76	18 DC FE31 DC	X'18' AL2(BYPASS-BASE+REG)	•••	001B16 001B1A	45 BO F 9FA 91 01 F 122	* BAL TM	R11,SAVSTA SIOSWS,XºO1º	GO SAVE STATUS + SENSE INFO IS INTERVENTION REQ SWITCH SET



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IBM MAI	INTENANCE DIAGNOSTIC	PROGRAM		P/N 840223 PAGE 7	IBM MAI	INTENANCE DIAGNOSTIC	PROGRAM		P/N 840223 Page 7a
	2821 SCAN, 1403 UN RESIDENT AND CONTRO					2821 SCAN, 1403 UNIV RESIDENT AND CONTROL		τ .	
001B1E 001B22 001B24 001B25 001B26 001B28	47 80 F B2C OA DO 44 O7 FE75 47 FO F 92A	UCBA15 SVC DC DC DC BC	NONE,UCBA17 X'DO' X'44' X'07' AL2(ERROO1-BASE+REG) UNC,EXIT	BRANCH IF OFF ERROR MESSAGE-SYNC CHECK *** *** *** *** *** *** *** *	001BC8 001BCC 001BCE 001BCF 001BD0 0CJBD2	47 80 F BD6 OA DO 44 O7 FEA6 47 FO F 92A	UCBD32 SVC DC DC DC DC BC	NONE, UCBD40 X'D0' X'44' X'07' AL2(ERROO8-BASE+REG) UNC, EXIT	BRANCH IF OFF ERROR MESSAGE - FALSE EQUIP CK ,, ,, ,, ,,
00182C 001830 001834 001838	41 00 F DF8 50 00 F 048 92 00 F 122 45 B0 F 228	UCBA17 LA ST MVI BAL	RO,DPRCCW RO,CAW SIOSWS,X°OO° R11,SIO	LOAD ADDRESS OF DIAG PRINT CCW RESET SID SWITCHES GO TO START I/O ROUTINE	001BD6 001BDA 001BDE 001BE0	91 08 F 808 47 10 F 8E8 0A D0	UCBD40 TM BC UCBD50 SVC DC	SNSE,X°08° ALL,UCBEOO X°DO° X'44°	WAS DATA CK PRESENT AT DEVICE END BRANCH IF ON ERROR MESSAGE -FALSE UNIT CHECK
00183C 001842 001846	D6 00 F 805 F 116 95 14 F 11F 47 80 F 854	C OC CLI BC	CESTAT(1),CSWSAV+4 CSWSAV+7,X*14* EQ,UCBBOO	OR CHAN END STATUS WITH PREVIOUS IS CSW RESIDUAL COUNT OK BRANCH IF OK	0018E1 0018E2 0018E4	07 FE91 47 FO F 92A	DC DC BC	X*07* AL2(ERRO05-BASE+REG) UNC,EXIT	••
00184A 00184C 00184D 00184E 001850	0A D0 44 07 FE7C 47 F0 F 92A	UCBA20 SVC DC DC DC DC BC	X'DO' X'44' X'O7' AL2(ERROO2-BASE+REG) UNC,EXIT	ERROR MESSAGE-CSW RESIDUAL COUNT ERR	001BE8 001BEC 001BF0 001BF6 001BFA	91 04 F 0E1 47 10 F BFE D5 83 F 88F F 76D 47 80 F C68 47 F0 F C08	UCBEOO TM BC CLC BC BC	UNIT1+1,X*04* ALL,UCBE10 RDAR+1(132),WRAREA+1 EQ,UCBF00 UNC,UCBE20	IS 120 POSITION PRINTER USED BRANCH IF 120 POSITION PRINTER WAS DATA READ BACK OK-132 POSITIONS BRANCH IF OK
001B54 001B58	45 BO F 9FA 45 AO F A14	UCBBOO BAL BAL	R11,SAVSTA R10,READS	GO SAVE STATUS + SENSE INFO GO DO CHECK READ + DATA READ	001BFE 001C04	D5 77 F 88F F 76D 47 80 F C68	UCBE10 CLC BC	RDAR+1(120),WRAREA+1 EQ,UCBF00	WAS DATA READ BACK OK-120 POSITIONS BRANCH IF OK
00185C 001860 001864 001868 00186C 001870 001874	91 04 F 808 47 10 F 8E8 91 02 F 805 47 80 F 890 41 10 0 001 45 80 F 9D8 47 F0 F 886	UCBCOO TM BC TM BC LA BAL BC	SNSE,X°04° ALL,UCBEOO CESTAT,X°02° NONE,UCBDOO R1,1(0,0) R11,BITCKO UNC,UCBC50	WAS UCB PARITY ON WITH WRITE BRANCH IF ON WAS UNIT-CK ON AT CHANNEL-END BRANCH IF OFF SET MASK TO LOOK FOR PARITY CK GO CHECK IF ANY 7 BITS IN CK RD DATA NO BITS FOUND - BR NO PARITY ERRS	001C08 001C0E 001C14 001C18 001C1C 001C22 001C26	D2 00 F 57D F 88F D2 82 F 57E F 57D 91 04 F 0E1 47 10 F C2A D5 83 F 57D F 88F 47 80 F C3A 47 F0 F C34	UCBE20 MVC MVC TM BC	CMPAR+1(1),RDAR+1 CMPAR+2(131),CMPAR+1 UNIT1+1,X'04' ALL,UCBE25 CMPAR+1(132),RDAR+1 EQ,UCBE50 UNC,UCBE30	CHECK IF ALL BITS READ THE SAME 15 120 POSITION PRINTER USED 15 BRANCH IF 120 POSITION 17 17
001878 00187A 00187B 00187C 00187E 001882	0A D0 44 07 FEBA 92 B3 F 751 47 F0 F 92A	UCBCO5 SVC DC DC DC MVI BC	X'DO' X'44' X'07' AL2(ERROO4-BASE+REG) SCHNUM,X'83' UNC,EXIT	ERROR MESSAGE -DATA REGISTER PROBLEM ,, OR PARITY CIRCUITS PROBLEM ,, SET UP SEARCH FOR PRINT DAT REG FLT	001C2A 001C30 001C34 001C36 001C37 001C38	D5 77 F 57D F 88F 47 80 F C3A OA DO 44 O7 FEB4	* UCBE25 CLC BC UCBE30 SVC DC DC DC	CMPAR+1(120),RDAR+1 EQ,UCBE50 X'DO' X'44' X'07' AL2(ERRO10~BASE+REG)	error message- intermittant buss in problem
001886 001888 001889 00188A 00188C	FE91 47 FO F 92A	UCBC50 SVC DC DC DC BC	X'DO' X'44' X'07' AL2(ERROO5-BASE+REG) UNC.EXIT	ERROR MESSAGE - FALSE UNIT CK	001C3A 001C3E 001C42 001C46 001C4A 001C4E 001C50	41 05 F 88F 41 10 F 88F 91 40 1 000 47 80 F C5E 41 11 0 001 15 01 47 60 F C42	UCBE50 LA LA UCBE52 TM BC LA CLR BC	RO,RDAR+1(R5) R1,RDAR+1 O(R1),X*40° NONE,UCBE60 R1,1(R1,0) R0,R1 UNEQ,UCBE52	SET UP MAXIMUM COUNT SET UP BEGINNING OF AREA CHECK FOR A 1 BIT BRANCH IF NO 1 BIT UPDATE INDEX 1 BY 1 WERE ALL POSITIONS CHECKED GO CHECK NEXT POSITION
001890 001894 001898 00189C 0018A0	91 02 F 806 47 80 F BE8 41 10 0 001 45 B0 F 9D8 47 F0 F BAE	UCBDOO TM BC LA BAL BC *	DESTAT, X*02* NONE, UCBEOO R1,1(0,0) R11,BITCKO UNC, UCBD20 X*DO*	WAS UNIT-CK ON AT DEVICE-END BRANCH IF OFF SET MASK TO LOOK FOR PARITY CK GO CHECK IF ANY 7 BITS IN CK RD DATA NO BITS FOUND - BR NO PARITY ERRORS ERROR MESSAGE- BUFFER PROBLEM	001C54 001C56 001C57 001C58 001C5A	OA DO 44 07 FEBB 47 FO F 92A	SVC DC DC DC BC	X'DO' X'44' X'07' AL2(ERRO11-BASE+REG) UNC,EXIT	ERROR MESSAGE - FOLDING PROBLEM OR BUSS IN 1 BIT PROBLEM TO THE PROBLEM TO THE PROBLEM
001BA6 001BA7 001BA8 001BAA	44 07 FE98 47 FO F 92A 41 10 0 002	DC DC DC BC *	X°44° X°07° AL2(ERROO6-BASE+REG) UNC,EXIT	***	001C5E 001C60 001C61 001C62 001C64	OA DO 44 07 FEC2 47 FO F 92A	* UCBE60 SVC DC DC DC DC DC DC	X*DO* X*44* X*07* AL2(ERRO12-BASE+REG) UNC,EXIT	error message -buss in problem ,, picked up bits ,, ,,
0018B2 0018B6 0018BA	45 BO F 9D8 47 FO F BC4	BAL BC * UCBD25 SVC	R1,2(0,0) R11,BITCKO UNC,UCBD30 X'DO'	SET MASK TO LOOK FOR PRINT CKS GO CHECK IF ANY 6 BITS IN CK RD DATA NO BITS FOUND - BR NO PRINT CKS ERROR MESSAGE - FALSE PRINT CHECKS	001C68 001C6C 001C70	91 08 F 808 47 80 F C7A 0A D0	* UCBFOO TM BC UCBFO5 SVC	SNSE,X'08' NONE,UCBF10 X'DO'	WAS DATA-CK PRESENT Branch IF NO Error Message- False Data Check
001BBC 001BBD 001BBE 001BC0	44 07 FE9F 47 F0 F 92A	DC DC DC BC	X'44' X'07' AL2(ERROO7-BASE+REG) UNC;EXIT	COULD BE COMPARE CIRCUITS PROBLEM	001C72 001C73 001C74 001C76	44 07 FEC9 47 FO F 92A	DC DC DC BC	X'44' X'07' AL2(ERRO13-BASE+REG) UNC,EXIT	** ** **
001BC4	91 10 F 808	* UCBD30 TM	SNSE, X *10 *	WAS EQUIP CK ON AT DEVICE END	001C7A 001C7E	41 05 F 80A 41 10 F 80A	UCBF10 LA LA	RO,CKRDAR+1(R5) R1,CKRDAR+1	SET UP FOR MAXIMUM COUNT INITIALIZE INDEX 1
DATE EC	16JUN65 22JUN65 124263 124249	15JUL65 15DEC65 124265 125601	15MAR66 15NOV66 125632 125655	ID F80C-5 PAGE 7	DATE EC		15JUL65 15DEC65 124265 125601	15MAR66 15NOV66 125632 125655	ID F80C-5 Page 7a

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IDM	MATIN	EMMIACE	U	IAG	w	31	10	r	NUI	311,6	•

50 00 F 048 92 00 F 122 45 B0 F 228

45 AO F A14

91 04 F 0E1

47 10 F DD2

47 FO F DDC

47 60 F DE4

92 82 F 751

47 FO F 9A4

47 FO F 92A

05 00176D 2000 0083

124249

124265

OA DO

44

07

124263

FEFA

D5 82 F 76E F 890

D5 76 F 76E F 890

001 DB0

001DB4

OOIDBC.

001DC0

001DC4

001DCA 001DCE

001002

001DD8

001DDC

001DE0

001DE4

001DE6

001DE7

001DE8

001DEA

001DEE

001DEE

001DF0

DATE

EC

FBOC 2821 SCAN, 1403 UNIVERSAL CHARACTER SET F80C5 RESIDENT AND CONTROL ROUTINE OVERLAY 1

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STORE CCW ADDRESS IN CAW RESET START I/O SWITCHES GO TO START I/O ROUTINE

BRANCH NOT OK

WRAREA+2(119), RDAR+2 WAS DATA READ OK -120 POSITION UNEQ, UCBL75 BRANCH IF NOT OK

SHTCCW CCW X'05', WRAREA+1, X'20', 131 DIAG WRITE, SHORT COUNT, SLI ON

GO SAVE STATUS + SENSE DATA

GO DO CHECK READ + DATA READ IS 120 POSITION PRINTER USED BRANCH IF 120 POSITION PRINTER

WAS DATA READ OK -132 POSITION

SET SEARCH NUMBER FOR ROUTINE 2

DOUBLE WORD ALIGNMENT

ERROR MESSAGE -INSERT BLANKS PROBLEM

ID F80C-5

PAGE

F80C	2821 SC	AN, L	403 UNI	VERSAL	CHARACTER	2F !
F80C5	RESIDENT	AND	CONTROL	ROUTIN	NE OVERLAY	1

001CFA 001CFB 001CFC 001CFE 001D02 001D08 001D09 001D0A 001D0C 001D12 001D13 001D14 001D16 001D1A 001D1E 001D22 001D26 001D2A 001D2C 001D2D	07 FED7 92 83 F 47 F0 F 0A D0 44 07 FEDE 47 F0 F 91 80 F 47 80 F 95 C0 F 47 80 F 0A D0 44 07 FEEC 47 F0 F	751 92A 92A 76D D2A 88F D44	#UCBG50 SVC DC DC DC DC DC DC DC DC DC DC DC DC DC	SCHNUM, X * 83 * UNC, EXIT X * DO * X * 44 * X * 07 * AL2(ERR016-BASE+REG) UNC, EXIT X * DO * X * 44 * X * 07 * AL2(ERR017-BASE+REG) UNC, EXIT	ERROR MESSAGE - PRINT BUFFER PROB. ,, LOST BITS ,, ERROR MESSAGE - BUSS IN PROBLEM ,, IS O BIT BEING WRITTEN BRANCH IF NOT O BIT WAS O + 1 BIT READ BACK BRANCH IF O + 1 BIT, FOLDING EXISTS ERROR MESSAGE-INTERMITTANT HOT BITS ,, ,, ,,
001CFB 001CFC 001CFC 001CFC 001D02 001D08 001D09 001D0A 001D0C 001D10 001D12 001D13 001D14 001D16 001D1A 001D1E 001D22 001D26 001D2A 001D2C	FED7 92 83 F 47 F0 F OA DO 44 07 FEDE 47 F0 F OA DO 44 07 FEE5 47 F0 F 91 80 F 47 80 F 95 C0 F 47 80 F OA DO 44 07 FEEC	751 92A 92A 76D D2A 88F D44	WVI BC UCBG40 SVC DC DC DC BC UCBG50 SVC DC DC DC BC UCBH00 TM BC * UCBH30 SVC DC DC DC DC DC DC DC DC DC DC DC DC DC	SCHNUM, X*83* UNC, EXIT X*D0* X*44* X*07* AL2(ERR016-BASE+REG) UNC, EXIT X*D0* X*44* X*07* AL2(ERR017-BASE+REG) UNC, EXIT WRAREA+1, X*80* NONE, UCBH30 RDAR+1, X*C0* EQ, UCBK10 X*00* X*44* X*07* AL2(ERR018-BASE+REG)	SET UP SEARCH FOR PRINT DAT REG FLT ERROR MESSAGE - PRINT BUFFER PROB. ,, LOST BITS ,, ERROR MESSAGE - BUSS IN PROBLEM ,, ,, IS O BIT BEING WRITTEN BRANCH IF NOT O BIT WAS O + 1 BIT READ BACK BRANCH IF O + 1 BIT, FOLDING EXISTS ERROR MESSAGE-INTERMITTANT HOT BITS ,, ,,
001CFB 001CFC 001CFC 001CFC 001D02 001D08 001D09 001D0A 001D0C 001D10 001D12 001D13 001D14 001D16 001D1A 001D1E 001D22 001D26 001D2A 001D2C	FED7 92 83 F 47 F0 F OA DO 44 07 FEDE 47 F0 F OA DO 44 07 FEE5 47 F0 F 91 80 F 47 80 F 95 C0 F 47 80 F OA DO 44 07 FEEC	751 92A 92A 76D D2A 88F D44	WVI BC UCBG40 SVC DC DC DC BC * UCBG50 SVC DC DC DC BC * UCBH00 TM BC * UCBH30 SVC DC DC DC	SCHNUM, X*83* UNC, EXIT X*DO* X*44* X*O7* AL2(ERRO16-BASE+REG) UNC, EXIT X*DO* X*44* X*O7* AL2(ERRO17-BASE+REG) UNC, EXIT WRAREA+1, X*80* NONE, UCBH30 RDAR+1, X*CO* EQ, UCBK10 X*DO* X*44* X*O7*	SET UP SEARCH FOR PRINT DAT REG FLT ERROR MESSAGE - PRINT BUFFER PROB. ,, LOST BITS ,, ERROR MESSAGE - BUSS IN PROBLEM ,, ,, IS O BIT BEING WRITTEN BRANCH IF NOT O BIT WAS O + 1 BIT READ BACK BRANCH IF O + 1 BIT, FOLDING EXISTS ERROR MESSAGE-INTERMITTANT HOT BITS ,, ,,
001CFB 001CFE 001CFE 001D02 001D08 001D09 001D0A 001D0C 001D10 001D12 001D13 001D14 001D16 001D1A 001D1E 001D22 001D22 001D26	FED7 92 83 F 47 F0 F OA DO 44 07 FEDE 47 F0 F OA DO 44 07 FEE5 47 F0 F 91 80 F 47 80 F 95 C0 F 47 80 F OA DO 44	751 92A 92A 92A 76D D2A 88F	WVI BC UCBG40 SVC DC DC DC BC BC UCBG50 SVC DC DC DC DC C C C C C C C C C C C C C	SCHNUM, X*83* UNC, EXIT X*D0* X*44* X*07* AL2(ERR016-BASE+REG) UNC, EXIT X*D0* X*44* X*07* AL2(ERR017-BASE+REG) UNC, EXIT WRAREA+1, X*80* NONE, UCBH30 RDAR+1, X*C0* EQ, UCBK10 X*D0* X*44*	ERROR MESSAGE - PRINT BUFFER PROB. ,, LOST BITS ,, ERROR MESSAGE - BUSS IN PROBLEM ,, IS O BIT BEING WRITTEN BRANCH IF NOT O BIT WAS O + 1 BIT READ BACK BRANCH IF O + 1 BIT, FOLDING EXISTS ERROR MESSAGE-INTERMITTANT HOT BITS ,,
001CFB 001CFC 001CFC 001CFE 001D02 001D08 001D09 001D0A 001D0C 001D10 001D12 001D13 001D14 001D16 001D1A 001D1E	FED7 92 83 F 47 F0 F OA DO 44 07 FEDE 47 F0 F OA DO 44 07 FEE5 47 F0 F 91 80 F 47 80 F 95 C0 F 47 80 F OA DO	751 92A 92A 92A 76D D2A 88F	WVI BC UCBG40 SVC DC DC DC BC * UCBG50 SVC DC DC DC BC * UCBH00 TM BC * UCBH30 SVC	SCHNUM, X*83* UNC, EXIT X*D0* X*44* X*07* AL2(ERR016-BASE+REG) UNC, EXIT X*D0* X*44* X*07* AL2(ERR017-BASE+REG) UNC, EXIT WRAREA+1, X*80* NONE, UCBH30 RDAR+1, X*C0* EQ, UCBK10 X*D0*	ERROR MESSAGE - PRINT BUFFER PROB. COST BITS COST BIT
001CFB 001CFC 001CFC 001CFE 001D02 001D08 001D09 001D0A 001D0C 001D10 001D12 001D13 001D14 001D16 001D1A 001D1E	FED7 92 83 F 47 F0 F OA DO 44 07 FEDE 47 F0 F OA DO 44 07 FEE5 47 F0 F 91 80 F 47 80 F	751 92A 92A 92A 76D D2A 88F	WVI BC UCBG40 SVC DC DC DC BC ** UCBG50 SVC DC DC DC BC ** UCBH00 TM BC ** CLI BC	SCHNUM,X*83* UNC.EXIT X*DO* X*44* X*O7* AL2(ERRO16-BASE+REG) UNC.EXIT X*DO* X*44* X*O7* AL2(ERRO17-BASE+REG) UNC.EXIT WRAREA+1,X*80* NONE,UCBH30 RDAR+1,X*CO* EQ,UCBK10	ERROR MESSAGE - PRINT BUFFER PROB. ,, LOST BITS ,, ERROR MESSAGE - BUSS IN PROBLEM ,, IS O BIT BEING WRITTEN BRANCH IF NOT O BIT WAS O + 1 BIT READ BACK BRANCH IF O + 1 BIT, FOLDING EXISTS
001CFB 001CFC 001CFE 001D02 001D08 001D09 001D0A 001D0C 001D10 001D12 001D13 001D14 001D16 001D1A	FED7 92 83 F 47 F0 F OA DO 44 07 FEDE 47 F0 F OA DO 44 07 FEE5 47 F0 F 91 80 F 47 80 F	751 92A 92A 92A 76D D2A 88F	WVI BC UCBG40 SVC DC DC DC BC BC * UCBG50 SVC DC DC DC BC * UCBH00 TM BC * CLI	SCHNUM, X*83* UNC, EXIT X*D0* X*44* X*07* AL2(ERR016-BASE+REG) UNC, EXIT X*D0* X*44* X*07* AL2(ERR017-BASE+REG) UNC, EXIT WRAREA+1, X*80* NONE, UCBH30 RDAR+1, X*C0*	SET UP SEARCH FOR PRINT DAT REG FLT ERROR MESSAGE - PRINT BUFFER PROB. ,, LOST BITS ,, ERROR MESSAGE - BUSS IN PROBLEM ,, ,, IS O BIT BEING WRITTEN BRANCH IF NOT O BIT WAS O + 1 BIT READ BACK
001CFB 001CFC 001CFE 001D02 001D08 001D09 001D0A 001D0C 001D10 001D12 001D13 001D14 001D16 001D1A	FED7 92 83 F 47 F0 F OA DO 44 07 FEDE 47 F0 F OA DO 44 07 FEE5 47 F0 F 91 80 F 47 80 F	751 92A 92A 92A 76D D2A 88F	WVI BC UCBG40 SVC DC DC DC BC ** UCBG50 SVC DC DC DC DC DC DC BC ** UCBHOO TM BC	SCHNUM, X*83* UNC, EXIT X*DO* X*44* X*07* AL2(ERR016-BASE+REG) UNC, EXIT X*DO* X*44* X*07* AL2(ERR017-BASE+REG) UNC, EXIT WRAREA+1, X*80* NONE, UCBH30	SET UP SEARCH FOR PRINT DAT REG FLT ERROR MESSAGE - PRINT BUFFER PROB. LOST BITS ERROR MESSAGE - BUSS IN PROBLEM IS O BIT BEING WRITTEN BRANCH IF NOT O BIT
001CFB 001CFC 001CFE 001D02 001D08 001D09 001D09 001D00 001D10 001D12 001D13 001D14 001D16	FED7 92 83 F 47 F0 F 0A D0 44 07 FEDE 47 F0 F 0A D0 44 07 FEE5 47 F0 F	751 92A 92A 92A 76D	WVI BC UCBG40 SVC DC DC DC BC UCBG50 SVC DC DC DC DC DC DC DC DC DC DC DC DC DC	SCHNUM, X*83* UNC, EXIT X*D0* X*44* X*07* AL2(ERR016-BASE+REG) UNC, EXIT X*D0* X*44* X*07* AL2(ERR017-BASE+REG) UNC, EXIT WRAREA+1, X*80*	SET UP SEARCH FOR PRINT DAT REG FLT ERROR MESSAGE - PRINT BUFFER PROB. ,, LOST BITS ,, ERROR MESSAGE - BUSS IN PROBLEM ,, ,, IS O BIT BEING WRITTEN
001CFB 001CFC 001CFE 001D02 001D08 001D09 001D09 001D00 001D10 001D12 001D13 001D14 001D16	FED7 92 83 F 47 F0 F 0A D0 44 07 FEDE 47 F0 F 0A D0 44 07 FEE5 47 F0 F	751 92A 92A 92A 76D	WVI BC UCBG40 SVC DC DC DC BC BC UCBG50 SVC DC DC DC DC DC DC UCBC DC DC DC DC DC DC DC DC DC DC DC DC DC	SCHNUM, X*83* UNC, EXIT X*D0* X*44* X*07* AL2(ERR016-BASE+REG) UNC, EXIT X*D0* X*44* X*07* AL2(ERR017-BASE+REG) UNC, EXIT WRAREA+1, X*80*	SET UP SEARCH FOR PRINT DAT REG FLT ERROR MESSAGE - PRINT BUFFER PROB. ,, LOST BITS ,, ERROR MESSAGE - BUSS IN PROBLEM ,, ,, IS O BIT BEING WRITTEN
001CFB 001CFC 001CFC 001D02 001D08 001D09 001D0A 001D0C 001D10 001D12 001D13 001D14 001D16	FED7 92 83 F 47 F0 F OA DO 44 07 FEDE 47 F0 F OA DO 44 07 FEE5 47 F0 F	751 92A 92A 92A	WVI BC UCBG40 SVC DC DC DC BC UCBG50 SVC DC DC DC DC DC DC DC DC DC DC	SCHNUM, X * 83 * UNC, EXIT X * DO * X * 44 * X * 07 * AL2(ERR016-BASE+REG) UNC, EXIT X * DO * X * 44 * X * 07 * AL2(ERR017-BASE+REG) UNC, EXIT	SET UP SEARCH FOR PRINT DAT REG FLT ERROR MESSAGE - PRINT BUFFER PROB. ,, LOST BITS ,, ,, ERROR MESSAGE - BUSS IN PROBLEM ,, ,, ,,
001CFB 001CFC 001CFC 001D02 001D08 001D09 001D0A 001D0C 001D10 001D12 001D13 001D14	FED7 92 83 F 47 F0 F 0A D0 44 07 FEDE 47 F0 F 0A D0 44 07 FEE5	751 92A 92A	WVI BC UCBG40 SVC DC DC DC BC * UCBG50 SVC DC DC DC	SCHNUM, X*83* UNC.EXIT X*DO* X*44* X*07* AL2(ERRO16-BASE+REG) UNC.EXIT X*DO* X*44* X*07* AL2(ERRO17-BASE+REG)	SET UP SEARCH FOR PRINT DAT REG FLT ERROR MESSAGE - PRINT BUFFER PROB. ,, LOST BITS ,, ,, ERROR MESSAGE - BUSS IN PROBLEM ,, ,,
001CFB 001CFC 001CFE 001D02 001D06 001D08 001D09 001D0A 001D0C 001D10 001D12 001D13	FED7 92 83 F 47 F0 F 0A D0 44 07 FEDE 47 F0 F 0A D0 44 07	751 92A	WVI BC UCBG40 SVC DC DC DC BC BC BC BC CDC DC DC DC DC DC DC	SCHNUM, X*83* UNC, EXIT X*DO* X*44* X*07* AL2(ERR016-BASE+REG) UNC, EXIT X*DO* X*44* X*07*	SET UP SEARCH FOR PRINT DAT REG FLT ERROR MESSAGE - PRINT BUFFER PROB. ,, LOST BITS ,, ,, ERROR MESSAGE - BUSS IN PROBLEM ,, ,,
001CFB 001CFC 001CFC 001D02 001D08 001D08 001D09 001D0A 001D0C	FED7 92 83 F 47 F0 F 0A D0 44 07 FEDE 47 F0 F 0A D0 44	751 92A	MVI BC UCBG40 SVC DC DC DC BC * UCBG50 SVC DC	SCHNUM, X*83* UNC, EXIT X*DO* X*44* X*07* AL2(ERR016-BASE+REG) UNC, EXIT X*DO* X*44*	SET UP SEARCH FOR PRINT DAT REG FLT ERROR MESSAGE - PRINT BUFFER PROB. OR LOST BITS OR PROBLEM OR PRINT DAT REG FLT FROM MESSAGE - BUSS IN PROBLEM OR PROBLEM OR PRINT DAT REG FLT ERROR MESSAGE - BUSS IN PROBLEM
001CFB 001CFC 001CFC 001D02 001D06 001D08 001D09 001D0A 001D0C	FED7 92 83 F 47 F0 F 0A D0 44 07 FEDE 47 F0 F 0A D0	751 92A	MVI BC UCBG40 SVC DC DC DC BC *	SCHNUM,X*83* UNC,EXIT X*DO* X*44* X*O7* AL2(ERRO16-BASE+REG) UNC,EXIT X*DO*	SET UP SEARCH FOR PRINT DAT REG FLT ERROR MESSAGE - PRINT BUFFER PROB. ,, LOST BITS ,, ERROR MESSAGE - BUSS IN PROBLEM
001CFB 001CFC 001CFE 001D02 001D06 001D08 001D09 001D0A 001D0C	FED7 92 83 F 47 F0 F 0A D0 44 07 FEDE 47 F0 F	751 92A	MVI BC UCBG40 SVC DC DC DC BC	SCHNUM,X*83* UNC.EXIT X*DO* X*44* X*07* AL2(ERRO16-BASE+REG) UNC.EXIT	SET UP SEARCH FOR PRINT DAT REG FLT ERROR MESSAGE - PRINT BUFFER PROB. ,, LOST BITS
001CFB 001CFC 001CFE 001D02 001D06 001D08 001D09 001D0A	FED7 92 83 F 47 F0 F 0A D0 44 07 FEDE	751 92A	MVI BC UCBG40 SVC DC DC DC	SCHNUM,X*83* UNC,EXIT X*DO* X*44* X*07* AL2(ERRO16-BASE+REG)	SET UP SEARCH FOR PRINT DAT REG FLT ERROR MESSAGE - PRINT BUFFER PROB. ,, LOST BITS
001CFB 001CFC 001CFE 001D02 001D06 001D08 001D09 001D0A	FED7 92 83 F 47 F0 F 0A D0 44 07 FEDE	751 92A	WVI' BC * UCBG40 SVC DC DC	SCHNUM, X*83** UNC, EXIT X'DO' X'44' X'07'	SET UP SEARCH FOR PRINT DAT REG FLT ERROR MESSAGE - PRINT BUFFER PROB. 1, LOST BITS
001CFB 001CFC 001CFE 001D02 001D06 001D08	FED7 92 83 F 47 FO F 0A DO 44	751	MVI BC * UCBG40 SVC DC	SCHNUM,X*83* UNC,EXIT X*DO* X*44*	ERROR MESSAGE - PRINT BUFFER PROB.
001CFB 001CFC 001CFE 001D02	FED7 92 83 F 47 FO F	751	MVI BC * UCBG40 SVC	SCHNUM+X*83* UNC+EXIT X*DO*	SET UP SEARCH FOR PRINT DAT REG FLT ERROR MESSAGE - PRINT BUFFER PROB.
001CFB 001CFC 001CFE 001D02	FED7 92 83 F 47 F0 F	751	MVI BC	SCHNUM,X*83* UNC,EXIT	SET UP SEARCH FOR PRINT DAT REG FLT
001CFB 001CFC 001CFE	FED7 92 83 F	751	MVI BC	SCHNUM,X*83	SET UP SEARCH FOR PRINT DAT REG FLT
001CFB 001CFC 001CFE	FED7 92 83 F	751	MVI	SCHNUM,X*83	SET UP SEARCH FOR PRINT DAT REG FLT
001CFB			DC	MEST CHUATA-DWAFT LEAT	그러워 化氯磺胺 마음에 그렇게 그렇게 되었습니다. 그리고 하지만 하면 가게 되지 않아 살아 살아 하셨다.
	07			AL2(ERRO15-BASE+REG)	지난 선생님이 그 그는 그는 지난 시간에 그리는 것이 없다.
			DC	X*07*	LOST BITS
	44		SVC DC		ERROR MESSAGE- PRINT DATA-REG PROB
001CF4	47.80 F	סטט	BC SVC		BRANCH IF NO UNIT CK FREDE MESSAGE PRINT DATA-REC DROB
001CF0		A many and and	TM	CESTAT, X1021	WAS UNIT CK ON FOR WRITE CHAN-END
	A1				100 - 100 100 - 100 100 100 100 100 100
001CEC	47 FO F		BC	UNC,UCBG50	,, NO BITS FOUND-BR NO PARITY
001CE8	7		BAL	R11,BITCKO	GO CHECK FOR 7 BITS IN CK READ
001CE4	41 10 0	001	UCBG25 LA	R1,1(0,0)	CHECK FOR PARITY PROBLEMS-SET MASK
001CE0	47 60 F	UIA	BC ★	UNEQ,UCBHOO	BRANCH IF BITS PRESENT
001000	95 00 F		CLI		WERE NO BITS IN FIRST BYTE
001CD8	47 80 F		BC	EQ,UCBG25	BRANCH IF DATA FF
001CD4	95 FF F		CLI		IS DATA FF BEING CHECKED
001000	41 00 F		*	~ 4 4 0 0 0 WOO	
001CCA 001CD0	05 00 F 47 80 F	88F F 76D	CLC BC	RDAR+1(1),WRAREA+1 EQ,UCBKOO	WAS 1ST BYTE READ AS EXPECTED
	DE 22 =	000 5 345	*	0040.1111	HAR TOT BUTE BEID AS SUBSECTED
001006	45 AO F		BAL	R10, READS	GO DO CHECK READ + DATA READ
001002	45 BO F	9FA	BAL	R11,SAVSTA	GO SAVE STATUS AND SENSE INFO
001CBE	45 BO F	228	BÂL. ₽	R11.SIO	GO TO START I/O ROUTINE
001C8A	92 00 F		IVM	SIOSWS,X°00°	RESET SIO SWITCHES
001CB6			ST	RO,CAW	STORE CCW ADDR IN CAW
001CB2	41 00 F	E00	LA	RO, PRCCW2	LOAD ADDR OF DIAG WRITE CCW FOR 1
OOLCAG		76D 9 000	UCBG10 MVC	WRAREA+1(1),0(9)	SET A DATA BYTE IN WRITE AREA
001CA2	07 98 F		UCBGUU XC	WRAREA(153),WRAREA	CLEAR WRITE DATA AREA INITIALIZE INDEX 9 TO DATA-FIELD
001643		76C F 76C	+ UCBGOO XC	WOADEA/1521 LDAGE	CLEAD WOLTS DATA ADSA
001C9E	47 FO F	92A	80	UNC, EXIT	
001090	FEDO		DC	AL2(ERRO14-BASE+REG)	
001C9A 001C9B	07		DC	X 107 1	** WITH BLANKS
001098	OA DO 44		UCBF20 SVC	X'DO' X'44'	ERROR MESSAGE- PROBLEM SETTING PLC
			*	¥*0.0*	- CROOD MEERALE - DOGG! SH ASSETTING
001094	47 FO F		BC	UNC , UCBGOO	
001C8E	15 01 47 60 F	C82	BC BC	UNEQ,UCBF15	GO CHECK NEXT POSITION
001C8A	41 11 0	001	LA CLR	R1,1(R1,0) R0,R1	UPDATE INDEX BY 1 WERE ALL POSITIONS CHECKED
001086	47 80 F		ВС	NONE, UCBF20	BRANCH IF NO PLC BIT
001082	91 04 1		UCBF15 TM	O(R1),X'04'	CHECK FOR PLC BIT
001603	01.06:1	000	UCDE1E TW	0/D11 V1041	CUSCY FOR DIC DIT

	001D34		4.1	10	٥	001				* UCBK00	1 A	R1.1(0.0)	CHECK FOR PARITY CHECKS-SET MASK
	001034					908	**			OCORCO	BAL	R11,BITCKO	. GO CHECK FOR 7 BITS IN CK READ
	001D3C					D44					ВС	UNC.UCBK10	NO BITS FOUND-BR NO PARITY ERR
						B78					BC	UNC UCBC05	,, PARITY ERRORS FOUND
			• •							*		,	
	001D44		41	99	0	001				UCBK10	LA	R9,1(R9,0)	UPDATE INDEX 9
	001D48		41	00	F	E31					LA		SET UP MAXIMUM COUNT
	001D4C		15	90							CLR	R9,R0	WERE ALL BITS CHECKED
	001D4E		47	60	F	CAC			100		BC ·	UNEQ,UCBG10	GO GET NEXT BIT
										*			
	001D52					76D				UCBL 00		WRAREA+1,X'FF'	LOAD WRITE AREA WITH ALL BITS
	001056					76E	F	76D			MVC	WRAREA+2(131), WRAREA+	
	001D5C					DF8					LA	RO DPRCCW	LOAD ADDRESS OF PRINT WRITE CCW
	001D60					048					ST	RO, CAW	STORE PRINT CCW ADDR IN CAW
	001D64					122					MVI	SIDSWS,X'00'	RESET START I/O SWITCHES
	001068		45	80	F	228					BAL	R11,SIO	GO TO START I/O ROUTINE
										*			
	001D6C					9FA					BAL	R11,SAVSTA	GO SAVE STATUS + SENSE DATA
	001D70		45	AO	F	A14					BAL	R10, READS	GO DO CHECK READ + DATA READ
										*			
	001D74					0E1					TM	UNIT1+1,X'04*	IS 120 POSITION PRINTER USED
	001078					D8A					BC	ALL,UCBL40	BRANCH IF 120 POSITION PRINTER
	001D7C						F	88F			CLC		WAS DATA READ OK -132 POSITIONS
	001D82					D94					ВС	UNEQ.UCBL50	BRANCH IF NOT OK
	001086		47.	FO	F	D9E					BC	UNC .UCBL60	
	001504				_	7/6		005		*			ULC DATE DEAD ON ADD DOCUTIONS
	001D8A					D9E	r	88F		UCBL40			WAS DATA READ OK -120 POSITIONS BRANCH IF OK
	001090		41	-60	r	DAE				*	BC	EQ,UCBL60	DRANCH IF UK
	001D94	₹.	ñ.	DO				1.1		UCBL 50	evr.	X *DO	ERROR MESSAGE -PRINT BUFFER PROBLEM
	001D94		44			7 . du			高級問	OUBLOO		X 144 1	ABOVE POSITION 1
à	001070		07						and allow		DC		
113			FEI							华七紫江海(BC	ALZIERRO19-BASE+REG)	
્રં	001D9A				F	92A) Y				BC	UNC.EXIT	
,	OULDIA	1 }			-15%		1,1	등통하다.					
	001D9E	ng.	D7	82	F	76F	F	76E	of sales in	UCBL 60	xe ax	WRARFA+2(131).WPARFA+	2 CLEAR WRITE DATA AREA
	001DA4					E00					ĹÀ		LOAD ADDR OF DIAG WRITE CCM- 1 BYTE
1	001DA8	Sec. 4				048					ST	RO.CAW	STORE CCW ADDRESS IN CAW
	001 DAC					122	÷.				MVI	SIGSWS,X'00'	RESET START I/O SWITCHES
5	001080					228		Street Section	A Stranger	Prairy Ben	DAL	011-010	CO TO START I/O POLITINE

R11,510

R11, SAVSTA

R10+READS

ALL-UCBL70

UNEQ,UCBL75

UNEQ,UEBL75

SCHNUM, X 82

x too!

X1441

X 1071

8,0

UNC, EXIT

CONSTANTS CCW TABLE

125632

UNC UCBL72

UNIT1+1,X'04*

WRAREA+2(131) +RDAR+2

AL2(ERRO20-BASE+REG)

125655

BAL

CLC

BC

DC

DC

DC

CNOP

BCR

22JUN65 15JUL65 15DEC65 15MAR66 15NOV66

125601

UCBL70 CLC

UCBL72 MVI

UCBL75 SVC



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IBM MA	INTENANCE DIAGNOSTIC PROGR	AM [P/N 840223 PAGE 9	IBM M	AINTENANCE	DIAGNO	OSTIC PRO	GRAM						P/N 840223 Page 9a
	2821 SCAN, 1403 UNIVERSA RESIDENT AND CONTROL ROUT						C 2821 SC RESIDENT					т				70
001DF8 001E00		DPRCCW CCW PRCCW2 CCW	X'05',WRAREA+1,X'20' X'05',WRAREA+1,X'20'	,152 DIAG WRITE TO PRINT ,1 DIAG WRITE TO PRINT					000004 000005	R4 R5	EQU EQU	4 5	,			
001E08 001E11	F2F8F2F140E2C3C1D5 61F1F4F0F340E4	TITLE1 DC	C'2821 SCAN/1403 U'						000006 000007 000008	R6 R7 R8	EQU EQU EQU	6 7 8				•
001E18 001E21 001E28	D6D340D7D9D6C7 0102040810204080FF	DATA1 DC	C'CS, CONTROL PROG' X'0102040810204080FF	• WRITE PRINT BUFFER	DATA				000009 00000A 00000B	R9 R10 R11	EQU EQU EQU	9 10 11				
001E31 001E3A 001E41	40C4C5C6C9D5C5C4	BYPASS DC DC WARN DC	C'BYPASSED-UCS NOT' C' DEFINED'						00000C 00000D 00000E	R12 R13 R14	EQU EQU EQU	12 13 14				
001E49 001E52 001E59	D6E340E4E2C540 C4C5E5C9C3C540E4D5	MARN DC	C'NOTE-DO NOT USE ' C'DEVICE UNDER TES'						00000F	R15 * *	EQU	15 CONDITIO	N CODE EQUA1	ES		· · · · · · · · · · · · · · · · · · ·
001E62 001E69 001E72	E340C6D6D940D6E4E3	DC	C'T FOR OUTPUT'						000008	* NONE ANY	EQU EQU	8		ALL OFF	0 1 3	
,	्रा क्ष्मराणाः .*	******	ERROR MESSAGES	**********	******	No. of Contract of			000001 000004 000009	ALL Some	EQU EQU D EQU	1 4 9		ALL ON MIXED NOT MIXED	1 3	ne and the other and public
		*	ERROR CONDITIONS						000008 000006 000004	EQ UNEQ LO	EQU EQU EQU	8 6 4		EQUAL NOT EQUAL LOW	0 1 2 1	
001E75	C5D9D940F0F0F1	* ERROO1 DC	C*ERR 001*	SYNC CHECK- PROBABLE ADMOR BAR UNIT	S ENCODE-				000002 000008 000002	HI Z POS	EQU EQU EQU	2 8 2		HIGH ZERO GREATER ZERO	0 2	•
001E7C		FRROOZ DC	C*ERR 002*						000008 000004 000002	CCO CC1 CC2	EQU EQU EQU	8 4 2		AVAILABLE CSW STORED BUSY	0 1 2	North Control
001E83 001E8A	C5D9D940F0F0F4	ERROO3 DC ERROO4 DC	C*ERR 003* C*ERR 004*	***RESERVED*** PRINT BUFFER DATA REGIST ,, OR PARITY CIRCUITS	S PROBLEM				00000F 00000D 000007	UNC NOTBS NZ	EQU	15 13 7		UNCONDITIONL NOT BUSY NOT CC 0	0 1 2 3 0 1 3 1 2 3	
001E91 001E98	C5D9D940F0F0F6	ERROO5 DC * ERROO6 DC	C*ERR 005*	FALSE UNIT CK - COULD BE ON SOLIE PRINT BUFFER PROBLEM	D : -				000004 00000C 00000B	NEG ZNEG CSWNS	EQU	4 12 11		NOT ZERO -ANI MIXED OR NONI CSW NOT STORI	0 1	
001E9F	C5D9D940F0F0F7 C5D9D940F0F0F8	ERROOT DC * Erroo8 DC	C'ERR 007' C'ERR 008'	FALSE PRINT CHECKS - COL ,, COMPARE CI FALSE EQUIPMENT CHECK			•		00000D 001000 00F000		EQU EQU EQU	13 SECNO X'FOOO'		NOT HIGH	0 1 3	
001EAD 001EB4 001EBB	C5D9D940F0F0F9 C5D9D940F0F1F0 C5D9D940F0F1F1	ERROO9 DC ERRO10 DC ERRO11 DC	C'ERR 009* C'ERR 010* C'ERR 011*	***RESERVED*** INTERMITTANT BUSS IN PROFOLDING PROBLEM OR BUSS				, ,			END					:
001EC2	C5D9D940F0F1F2	* ERRO12 DC *	C*ERR 012!	PROBLEM WITH BUSS IN CIF	RCUITS	e Printer and control of the Control										
001EC9 001ED0 001ED7	C5D9D940F0F1F3 C5D9D940F0F1F4 C5D9D940F0F1F5	ERRO13 DC ERRO14 DC ERRO15 DC	C'ERR 013' C'ERR 014' C'ERR 015'	FALSE DATA CHECKS PROBLEM SETTING PLC BITS PRINT BUFFER DATA-REGIST		maded transport		•								•
001EDE 001EE5	C5D9D940F0F1F7	* ERRO16 DC ERRO17 DC	C'ERR 016' C'ERR 017'	PRINT BUFFER PROBLEM - LOST BUSS IN PROBLEM -	DST BITS BITS				ri P							
001EEC 001EF3 001EFA	C5D9D940F0F1F8 C5D9D940F0F1F9 C5D9D940F0F2F0	ERRO18 DC ERRO19 DC ERRO20 DC	C'ERR 018' C'ERR 019' C'ERR 020'	INTERMITTANT HOT BITS PRINTER BUFFER PROBLEM A PRINTER INSERT BLANKS PR				je je								
		***	EQUATES	Alaw 1	•											
The state of the s	000040 000048 000078	HCSW EQU HCAW EQU HION EQU	64 72 120	HARDWARE CSW LOCATION HARDWARE CAW LOCATION HARDWARE I/O NEW PSW LOC	CATION	0										
	001118 00157C	CSWSAV EQU OUTPUT EQU *	SIOVR3 SCPDAT	OUTPUT AREA EQUALS SCOPE	E DATA AREA											
•	000000	* * RO EQU	GENERAL REGISTER EQUA 0	ATES												
	000001 000002 000003	R1 EQU R2 EQU R3 EQU	1 2 3													
DATE	16JUN65 22JUN65 15JUL	.65 15DEC65	15MAR66 15NOV66		ID F80C-5	DATE	16JUN65	22J U	IN65 15	JUL65 1:	5DEC 65	15MAR66	15N0V66			ID F80C-5
EC	124263 124249 12426		125632 125655		PAGE 9	EC	124263	1242			25601	125632	125655			PAGE 9A

			Marie (St. a. Governor Tolkewskin) essay es	ik galan seperatura kangangan menggan sebegah sebegah sebegah sebegah sebegah sebegah sebegah sebegah sebegah s	and the second s	on an anti-anti-anti-anti-anti-anti-anti-anti-	ana i mengupungkan pina mengupungkan penanggan	were principles and any experience of the control o	and the second	-many gardpools, b. b. gleite Ball of Group or , an	en en en en en en en en en en en en en e	amento e a concrete	ton to the control open to	. There is a long	· or · · · · · · · · · · · · · · · · · ·	Same a Procedure		The reduced in	The special series of seri	maken ge v			Marie a Marie and Service and	neve from a st	ing of the control of the state of the control of t	interessis entitationalistische de	n kin ga kin dan saya - san da	on one was a substitute and the	Madeline (Marie Care, region y	historyalitaksaksisi sekenyaisi	gi e il Tadas Algania in con-	, et in house de monte per de més deller en estade	additable rejections digg.	
IBM MAI	NTENANC	E DIAGN	OSTIC	PROGRAM										P/N PAGE	840223 10	I	BM MA	INTENA	NCE DI	AGNO	STIC P	ROGRAM										P/N 84	10A	and the state of the state of
				VERSAL C ROUTINE												F						ERSAL C ROUTINE										* · · · · · · · · · · · · · · · · · · ·		
POSTAS	SEMBLY	DATA.			1 ₂ 1																	184E,	187C,	188A,	1A92, 18A8, 1C74,	18BE,	1BDO,	18E2						
RE	FERENCE	S TO DE	FINED :	SYMBOLS.	•													4	122	8	SIO	1D14, 1A26,	1D2E,	1D98,										the saline in
Control of the Contro	1 1	8 8	Z EQ	13B6 168A,	1AF2,	1846,	1BF6,	1004,	1022,	1030								1		F	UNC	137C,	1386,	13AE,	12F4, 13BE, 14F2,	1308,	1408,	143C	4.5					
	2 1	1946	GO HI			1D26, 1974,	1D90 197E,	1988,	19BC												•	1550,	1562, 19D4,	16A0, 19EE,	16AA, 19F4, 1882,	171C, 1A12,	1992. 1840.	19BA 1AFC						
	1111	7	LO NZ RO	1708 1274,			14A4, 1A1E,																1076, 1030,	1094,	1BE4, 1C9E, 1D40,	1CEC,	1002,	1DOC						
				1A9A, 1ADE,	1444,	1806,	1AC2, 1BOA, 1CB2,	1AC2, 1B2C,	1AC4, 1B30,	1ACC 1C3A								3	100	0 !	BASE	1446,	1454,	14F0,	1338, 14FA, 1A92,	1544	1680,	196C						*
- Andrews of the Parket of the	1.	1	R1	1228, 186C,	1898,	1256, 1BAE,	1438, 1C3E,	1C42,	1C4A,	1C4A					• ,	Manual Ma						184E, 1C38, 1D14,	187C,	188A, 1062,	18A8, 1C74,	1BBE,	1BDO,	18E2						
	1	2	R2 R3	104E, 1034 19D8, 13FE,	19EA,	1AC8, 144C,		ICOM,	1000,	/						And the second s		4	175 175 192	8	BREX CLRC EXIT	105D 123E 1AFC, 1BD2,			1882, 1064,									
	1:	5	R4 :	13A6, 155E	13AA,	13D4,	13E6,										•	4	19F 4		EXTM HCAW	100C, 19E2		1D30,	1D9A,		10,24	1002						
	1 1 1	6 7 8	R6 R7 R8	16AO,		19A0,		1450	1450	1010							**	1	7	8	HCSW -	14DE,	151A		134E,									
	1	9	R9	1D44,	1044, 12AC, 139C,	104C	1696, 12D8, 1430.		135A,	1372				- tr				1. 1. 1		8	NONE	193A,	199C, 1868,	1A80,	1418, 1886, 18C8,	1AAO,	1ABA,	1 AD6				- 11		
	1	5	- ANY	1692, 1860, 1266,	16A6, 1BDA, 1304,	1710, 18EC, 133E,	1718, 1C18, 134A,	1964, 1D78, 1410,	19E6, 1DCO 1424,	1A6E 1524			•					1	100 188		NUTE RDAR	1982,			1A2A, 1C2A,									
	4 !	1048	CAW.	1464, 16F0,	1488,	148C.	1292, 1496, 1A1E,	149A,	154A,	169A	•							1 4	180 100		SNSE	1AOC,	185C, 12A8,	18C4, 12D4,	108A, 18D6, 12F8,	1C68 138A,	1448,							
Andreas and the second	1 1	8 4 2	CCO CC1 CC2	127C, 13BA,	155A	2000,												1		4	SOME U10P	1AD2 12A4	1100,	11144	192A,	14301	1998,	IADA						
	8 4 2 2	1040 1980 1904	GO1 GO2	1992 1964		•								*				. 1 16	1E4	6 9	UNEQ Warn	1DD8 1A98	1050,	1090,	1CEO.	104E,	1082+	1DCA						
	1 1 1	100A 4 2 A	ICM NEG POS R10	16AE.	1840.	1858,	1006,	1070.	1DB8									1 8 250	1A4 157	8 A	ZNEG DCCW MPAR SWAG				1C1C,		146C-	1 406						
	1	8	R11 :	143C, 19BA, 1A26,	16DC, 19BC, 1A3C,	1944, 19EE, 1AEA,	194E, 19FO, 1812,	1974, 19F0, 1816,	197E, 19F4, 1838,	1A12 1854								9 4 2	1E2	8 D	ATA1 XIT1 XIT2	1CA8,			2400,		14307	1,00					en in de la companya de la companya de la companya de la companya de la companya de la companya de la companya	
	1	C **	R12	1D68, 123E,	1D6C, 124E,	1DBO, 1278,	1CBE, 1DB4 13B2, 1686,	1308,	1440;	150A								1 1 5	100 101	F F								e Television		a Aja		લાગુ તું કૃષ્		
	1	ם	R13	1704, 1248,	1A64, 1300,	1A64, 131A,		134E,	1392,	13C2						and Charles and Street		1 6 1 3	1A1 1A6	4 R 0 R	HIGH EADS TNO1 ECNO	1015	1CC6,		1DB8	12E0.	12E2.	1316						
Formation of the Control of the Cont	1	E F	R14 R15	1A84 1274, 1A84,	1506, 1AA4	1552,	1AC4									and the second s		. ·	200			1318, 146C, 14EA,	1324, 146E, 153C,	1326, 1474, 153E,	136A, 1476, 1762,	136C, 1496,	1464,	1466 14E8		57.7 1 4.75				a market and a second
Personal Control of the Control of t	1	F000	REG				1338, 14FA,											1	112	0	ENSE		1AAE, 1238,		1F01 136E,	1420,	1420,	1474						
DATE EC	16JUN6 124263		UN65 249	15JUL65 124265			5MAR66 125632	15NOV 12565			-	IPSpace for V field the condition of		ID PAGE	F80C-5 10		ATE C	16JU 1242		22JU 1242		15JUL65 124265	15DE 1256		15MAR66 125632	15NO\ 12565						ID F		



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IBM MAINTENANCE DIAGNOSTIC PROGRAM	P/N 840223 Page 11	IBM MAINTENANCE DIAGNOSTIC PROGRAM	P/N 840223 Page 11a
F80C 2821 SCAN, 1403 UNIVERSAL CHARACTER SET F80C5 RESIDENT AND CONTROL ROUTINE OVERLAY 1		F80C 2821 SCAN, 1403 UNIVERSAL CHARACTER SET F80C5 RESIDENT AND CONTROL ROUTINE OVERLAY 1	ilian verilinininininininininininininininininini
1568, 1AOC 3 1753 UAPRT 1288, 1284, 130C, 145A, 147E, 1ABO 250 157C UCSAR 1 10E0 UNIT1 1A6A, 1AB6, 1BE8, 1C14, 1D74, 1DBC 1 1807 AGSTAT 1A06		250 157C SCPDAT 1570, 16E0, 16E6, 16E6, 192A, 192A, 1F01 4 1678 SCPR00 1932, 19A0, 1ADA 2 167C SCPR10 1718 4 1686 SCPR20 16A6	
2 19D8 BITCKO 1B70, 1B9C, 1BB2, 1CE8, 1D38 4 19DA BITCK1 19EA 4 19F0 BITCK2 19E6 16 1E31 BYPASS 1A76		4 1696 SCPR30 16AA, 171C 4 16A2 SCPR40 168A 4 16AE SCPR50 1692 4 16DC SCPR51 16D2 4 16EC SCPR70	,, , , , , , , , , , , , , , , , , , , ,
1 1805 CESTAT 1952, 19FA, 183C, 1864, 1CFO 1 1927 CKDATA 19DE, 19F6 1 1809 CKRDAR 196E, 1978, 19DA, 1A14, 1A14, 1A58, 1C7A 1C7E		6 16FA SCPRBO 1710 4 1704 SCPR9O 1708 16 1728 SCPRK2 1680 4 1720 SCPRK3 1682, 1686 4 1578 SCPRK4 16AE, 16B2, 16BC, 16C2, 16C6, 16CC, 16DC	
8 1A58 CRDCCH 1A1A 1 B CSWNST 13DC 4 1118 CSWSAV 19FA, 1AEE, 1B3C, 1B42 1 1806 DESTAT 1A00, 1B90 8 1DF8 DPRCCW 1B2C, 1D5C 7 1E75 ERRO01 1B26		16E0 4 1724 SCPRK5 2 174F SCPRKA 16CC, 16D6 8 1DFO SHTCCH 1B06 6 1232 SIDAOO 127C, 1284, 12AC, 12C8, 1308, 1342 4 1274 SIDAO1 1280, 12AO, 12D8, 12F4, 13O4, 133E, 1386	
7 1E7C ERRO02 1AFA, 1B4E 7 1E83 ERRO03 7 1E84 ERRO04 1B7C 7 1E91 ERRO05 1B8A, 1BE2 7 1E98 ERRO06 1BA8		1274 SIDAO1 1280, 1200, 1270, 1395,	
7 1E9F ERRO07 1BBE 7 1EA6 ERRO08 1BD0 7 1EAD ERRO09 7 1EB4 ERRO10 1C38 7 1EBB ERRO11 1C58		6 130C SIODO2 134A, 1352 4 133A SIODO3 137C 4 1346 SIODO4 12FC 4 1362 SIOEO0 1330 2 1380 SIOEO1 1372	
7 1EC2 ERR012 1C62 7 1EC9 ERR013 1C74 7 1ED0 ERR014 1C9C 7 1ED7 ERR015 1CFC 7 1EDE ERR016 1D0A		6 147E SIOFOO 1362, 141C 6 149A SIOFO1 155A, 1562 2 14F6 SIOFO2 14C4, 14DO 6 1500 SIOFO3 14BC 4 150A SIOFO4 1512	
7 1EE5 ERRO17 1D14 7 1EEC ERRO18 1D2E 7 1EF3 ERRO19 1D98 7 1EFA ERRO20 1DE8 2 1996 EXITIA 19C6, 19D4 3 105D EXNADR		6 151A SIGFO5 150E, 1516 2 153B SIGFO6 1524, 152C 6 154A SIGFO7 1534 4 1552 SIGFO8 14AC, 14F2, 14FC, 1546, 155E 4 13AA SIGIOO 13BE, 13C8	
5 1058 EXNPSW 8 1018 EXOPSW 1 1928 EXPECT 2 1A64 INITOO 2 1A7A INITO5 1A6E		4 1382 SI0101 13AA 6 13C2 SI0102 135E, 13BA 4 13CC SI0103 13AE, 13B6, 13E6 6 13EA SI0104 13D0 4 140C SI0105 13FA	
2 1A94 INIT10 1A86 2 1A9A INIT20 1AA0 3 107D IONADR 5 1078 IONPSW 8 1038 IOOPSW		4 1438 SIOIO6 125E, 135A, 139C, 1418, 1430 4 143E SIOIO7 1424 4 144C SIOIO8 1410 6 145A SIOIO9 13FE, 143E, 144C 4 138A SIOINT 1070	in the second se
8 1070 MCNPSW 8 1030 MCOPSW 1 9 NMIXED 1 D NOTBSY 250 157C OUTPUT 193E, 1948, 1952, 195C, 195E, 196C, 196E		16 1123 SIOMS1 1288, 1294, 1296, 129E, 1286, 1288, 128E 12C6, 12E2, 12E4, 12EA, 12F2, 19C4 16 1156 SIOMS2 130C, 1318, 1326, 1328, 1338, 136C, 137A 1384, 14D8 16 11AC SIOMS3 1406, 1446, 1454, 145A, 1466, 146E, 1476	
1978, 1982, 198C, 19AA, 19AC, 19B2, 19B8 19CE 8 1068 PGNPSW 8 1028 PGOPSW 8 1EOO PRCCW2 1CB2, 1DA4		16 11EA SIOMS4 147E, 1498, 1484, 14CO, 14C8, 14D4, 14D8 14EA, 14FO, 14FA, 153E, 1544 1 1122 SIOSWS 125A, 1356, 1398, 13CC, 1428, 1434, 1A22 1A38, 1AE6, 180E, 181A, 1834, 1CBA, 1D64	
1 1929 PROGSW 1960, 19D0 8 1A50 PRRCCW 1A30 6 1A2A READS2 4 1080 REGDMP 6 19FA SAVSTA 1B16, 1B54, 1CC2, 1D6C, 1DB4		4 10E4 SIOVR1 1228, 1438, 1678, 1696 4 1114 SIOVR2 122C, 154A, 169A 4 1118 SIOVR3 1232, 1232, 131A, 1324, 132C, 133A, 1392 13EA, 1F01 4 1108 SIOVR4 1256, 1262, 12CC	
1 1751 SCHNUM 175C, 187E, 1CFE, 1DDC 8 1570 SCPCCW 1682, 1688, 168C, 16C6, 16D6, 16EC DATE 16JUN65 22JUN65 15JUL65 15DEC65 15MAR66 15NOV66	ID F80C-5	1 1155 SIOVR6 4 1110 SIOVR7 1480, 1488, 14CC	1D F80C-5
EC 124263 124249 124265 125601 125632 125655	PAGE 11	DATE 16JUN65 22JUN65 15JUL65 15DEC65 15MAR66 15NOV66 EC 124263 124249 124265 125601 125632 125655	PAGE 11A

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	21 SCAN, 14 IDENT AND C															AN, 1403 UNIV	ERSAL CHARACTER SE AY 2			PAGE
	8 · 1220 S		DE, 1		1500,	1500,	151A,	1520,	1528		• · · · · · · · · · · · · · · · · · · ·									
	4 110C S 8 1568 Si	OVR9 13/	A6, 1	13D4,	1ACE														ROUTINE OVERLAY 2	
	2 119F S	ATSV 13/		13A0,	1302.	13E0.	13F0,	1400			ay Nag					001000	XF80C5 START	7 4096 5 *,15		
erpagnic and the	8 1020 S	OPSW		eg samera	anna mfaf. S		sen fin e	and the second	territoria.								A Company of the Comp		**************************************	上帝亦亦亦亦亦亦
	2 10E2 U	ADDR 1A	66,	LAAE															******************************	
	4 1ADE U	BAOS 1A														001000		* SECNO+4		
	4 180E U	BA15			,									1.7		001046	CSW EQU	SECNO+64 SECNO+72		
4	4: 182C U	BA20		ii.												0010E0	UNIT1 EQU	SECNO+224 SECNO+226		
	4 1854 U	BC00	46									•			* .	001116	SIOVR3 EQU	SECN0+280		
	2 1878 U 2 1886 U															001108	SIOVR9 EQU	SECNO+264 SECNO+268		
	4 1890 U									•				•	•	001122 00119	STATSV EQU	SECN0+290 SECN0+415		
	2 188A U 4 18C4 U	BD25														0011A4 001121	CAWKEY EQU	SECNO+420 SECNO+289		
	2 1BCC U	BD32										•				001120 001228		SECNO+288 SECNO+552		
	2 18DE U	BD50		1894,	1804											001570 001678		SECNO+1404 SECNO+1656		
	6 1BFE U	BE10 188	EC	10779	IDDA											001751 001753		SECNO+1873 SECNO+1875		
	6 1C08 U	BE25 1C1	18														*	•	***************	*****
	2 1C34 U	BE50 1C2	22, 1	LC30													* ROUTINE (OVERLAY 1 LABELS	ADDRESSED BY ROUTINE OVERLAY 2	
	4 1C42 U	BE60 1C4	46										19.4			001760	WRAREA EQU	SECNO+1900 WRAREA+153	WRITE AREA 153 POSITIONS CHAN END STATUS - 1 POSIT	
	4 1068 U	8F05	F6, 1	ICO4												00180	DESTAT EQU	WRAREA+154	DEVICE END STATUS - 1 POS	ITION
	4: 1C7A U															001807 001808	SNSE EQU	WRAREA+155 WRAREA+156	COMBINED CHAN + DEV END S' SENSE DATA - 1 POSITION	
	2 1C98 U															001809 001888	RDAR EQU	WRAREA+157 WRAREA+290	CHECK READ AREA - 133 POST DATA READ AREA - 153 POST	TIONS
	6 1CAC U	BG10 1D4	4E													001927 001928	EXPECT EQU	WRAREA+443 Wrarea+444	TEMPORARY CK READ DATA STO AREA TO TEST FOR EXPECTED	
	2 1D06 U	BG40 1CF	-4													001929	PROGSW EQU	WRAREA+445	PROGRAM SWITCHES ,, BIT 0 - 1ST PRINT PAS	S S
*, 1989215	4 1D1A U	вноо 🗀 1С	E 0														* *	The second second second second second second second second second second second second second second second s	,, BIT 1 - RUN ROUTINE S	
	4 1D34 U	BKOO 1CE		nac												001570		SCPDAT SCPDAT	UCS BUFFER LOAD AREA - 24 COMPARE DATA AREA - 133 PO	
	4 : 1052 U	BL 00		1036												00192/		WRAREA+446 EXIT+122	SVC D6 EXIT FROM ROUTINE	
	6 1D8A U0 2 1D94 U0	BL 50 1D8	32													0019D8	BITCKO EQU	EXIT2+52	CHECK BIT ROUTINE SAVE STATUS + SENSE DATA	
	6 109E UG	BL70 1D0		טפט												001A14 001A24	READS EQU	SAVSTA+26	DO CHECK READ + DATA READ DO DATA READ	
	4 1DDC UC 2 1DE4 UC	BL 75 100	A, 1	DD8												OUTAZA	*			
	1 176C W	1CA	12, 1	CAC.	1CCA,	1CD4,	1BFO, 1D1A,	1052,	1056					001015	00110	00101		SECNO+21	INITIALIZE OVERLAY	
		105 106	56, 1 50, 1	D7C,	108A.	1D9E,	109E,	1DC4,	1002			_ne		001015	001A8	001480	DC ORG	AL3(RTN02) Secno+2700	START OF CNTRL PROG RTNE	DVERLAY
	1 . 1000 XI	8005															*	ROUTINE PREFIX		
																	* * * * * * * * * * * * * * * * * * *	ROUTINE OVERLAY		
	NO S	RROR DETEC	TED I	N ARD	VE ACCE	MRIV								001A8C	02		RTNO2 DC	0,4 XL1'02'	FULL WORD ALIGNMENT ROUTINE NUMBER	
									.ee'					001A8D 001A8E			DC DC	XL1'00' XL2'FFFE'	FLAGS LAST ROUTINE	
															· · · · · · · · · · · · · · · · · · ·		*		BUFFER + ASSOCIATED CIRCUITRY O.	K •
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F80C 2821 SCAN, 1403 UNIVERSAL CHARACTER SET F80C5 CONTROL ROUTINE OVERLAY 2

F80C 2821 SCAN, 1403 UNIVERSAL CHARACTER SET FBOC5 CONTROL ROUTINE OVERLAY 2

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125601 125632 125655

						00184A	D2 00 F 57D 9 00	O UCBN1	MVC	UCSAR+1(1),0(R9)	SET DATA BYTE IN UCS WRITE AREA
		*	STADE CHECKOUT OF UCB	CIRCUITRY OF PRINTER ICU		001B50	D2 EE F 57E F 57		MVC	UCSAR+2(239),UCSAR+1	FILL UCS AREA WITH DATA BYTES
		ф ф	SIARI CILLOROCI OI OO			001856	D2 83 F 76D F 57	D	MVC	WRAREA+1(132),UCSAR+1	
001.400	91 40 F 929	ENTRY TH	PROGSW.X . 40 .	IS RUN ROUTINE SWITCH ON		00185C	96 20 F 929		OI	PROGSW,X'20'	SET SW TO IGNORE LOGOUT OF READ DATA
001A90 001A94	47 80 F A9C	80	NONE FATRYI	BRANCH IF OFF		001860	41 00 F E30		LA	RO, LOUC SI	LOAD ADDRESS OF UCB LOAD CCH-NO FOLD
001A98	92 82 F 751	M& I	SCHNUM, X º 82 º	RESET SEARCH NUMBER TO THIS ROUTINE		001864	50 00 F 048		ST	RO, CAN	STORE CCW ADDR IN CAN
001A9C	95 82 F 751	ENTRYL CLI	SCHNUM,X *82 *	IS SEARCH NUMBER FOR THIS ROUTINE	,		2.4	*			THIS IS A PRELOAD UCS COMMAND,
OOLAAO	47 60 F 9A4	BC	Ourdieven	GO SEARCH FOR FLT OVERLAY		001240	92 04 F 122	*	MVI	SIOSWS.X*04*	CHAINED TO A UCS LOAD COMMAND RESET SID SWITCHES-WAIT FOR SYNC OK
001AA4	96 40 F 929	Oï	PROGSW,X*40*	TURN RUN ROUTINE SWITCH ON		001868 00186C	45 BO F 228		BAL	R11,SIO	GO TO START I/O ROUTINE
001AA8	41 50 0 084	LA	,	SET REG 5 FOR 132 POSITION PRINTER IS 120 POSITION PRINTER USED		001870	45 80 F 9FA		BAL	·R11,SAVSTA	GO SAVE STATUS + SENSE DATA
OO1 AAC	91 04 F OE1	TM		BRANCH IF NOT 120 POSITION PRINTER		001010	45 00 1 71 4	*	UAL	R42 # 30 4 3 1 h	The state of the s
001AB0	47 80 F AB8	BC		SET GEN REG 5 FOR 120 POSITION PRINT		001874	91 01 F 122	•	TM	SIOSWS,X'01'	IS INTERVENTION REQ SWITCH SET
001AB4	41 50 0 078	LA	R5,120(0,0)	251 GEN KER 2 LON 150 LOST 1501 LITTLE		001878	47 10 F AFC		BC	ALL,UCBM10	GO TO SYNC CK PRINTOUT
		*						*			
		A SECULOR SEC	UCSAR(130),UCSAR	RESET UCB LOAD AREA TO NULL		00187C	91 02 F 807		TM	AGSTAT,X'02'	CHECK FOR UNIT CK
001AB8	D7 81 F 57C F 57C	UCBMOO XC XC	UCSAR+130(111),UCSAR+1	130		001880	47 80 F B8C		BC	NONE, UCBN20	BRANCH IF NO UNIT CK
OOLABE	D7 6E F 5FE F 5FE D2 83 F 76D F 57D	MVC	WDARFA+1(132).UCSAR+1	USED FOR LOGOUT OF DATA		001884	91 04 F 808		TM	SNSE,X'04'	WAS UCS PARITY BIT ON
001 AC4	96 20 F 929	01	PROGSW,Xº20°	SET SW TO IGNORE LOGOUT OF READ DATA		001888	47 10 F B16		BC	ALL,UCBM30	GO TO ERROR PRINT -UCB DATA-REG PROB
001ACA 001ACE	41 00 F E30	LA	RO.LDUCS1	LOAD ADDR OF UCB LOAD CCW-NO FOLDING				*			
001AD2	50 00 F 048	ST	RO.CAW	STORE CCW ADDRESS IN CAM		00188C	94 DF F 929	UCBN20		PROGSW, X*DF *	RESET SKIP READS DATA LOGOUT SW.
UUIAUZ	30 00 1 040	*		THIS IS A PRELOAD UCS COMMAND,		001890	D2 00 F 76D 9 00	•	MVC	WRAREA+1(1),0(R9)	SET WRITE DATA IN PRINT AREA
		\$		CHAINED TO A UCS LOAD COMMAND		001896	D2 82 F 76E F 76	ט	MVC	WRAREA+2(131), WRAREA+	LOAD ADDR OF PRINT WRITE CCW
001AD6	92 04 F 122	MVI	SIDSWS,X*04°	RESET SIO SWITCHES- WAIT FOR SYNC CK		00189C	41 00 F E20 50 00 F 048		LA St	RO.CAW	STORE PRINT CCW ADDR IN CAW
00 1 ADA	45 BO F 228	BAL	R11,SIO	GO TO START I/O ROUTINE		0018A0		and the same	MAI	SIOSWS.X.00.	RESET SIO SWITCHES
OOLADE	45 BO F 9FA	BAL	R11, SAVSTA	GO SAVE STATUS + SENSE DATA		001844	92 00 F 122 45 80 F 228		BAL	R11,SIO	GO TO START I/O ROUTINE
		*		THE PERSONAL COUNTY OF	*	001BA8	49 BU F 226	*	DAL	X11,310	South the mooning
001AE2	95 14 F 11F	CLI	CSWSAV+7,X'14'	IS CSW RESIDUAL COUNT OK		OOLBAC	45 BO F 9FA	•	BAL	R11.SAVSTA	GO SAVE STATUS + SENSE DATA
001AE6	47 80 F AF4	BC	EQ,UCBMO5	BRANCH IF OK PRINT MESSAGE - WRONG RESIDUAL COUNT	1. 1.	001880	45 AO F A14		BAL	R10,READS	GO DO CHECK READ + DATA READ
OOLAEA	OA DO	SVC	x ' DO '			OOLDOO	32, NO 1 2 2 3 1	*	C) PA III	KEOVKEADS	
001 AEC	44	DC	X * 44 *	9.2		001884	91 02 F 807		TM	AGSTAT,X'02'	CHECK FOR UNIT-CK ON DIAG WRITE
OOLAED	07	DC	X 107.1	# 9	1 1	001888	47 80 F C1C		BC	NONE, UCBPOO	BRANCH IF NO UNIT-CK
OOLAEE	FEDO	DC	AL2(ERRO36-BASE+REG)	9 9	1	44.545		*			
001AF0	47 FO F 92A	8C	UNC, EXIT			001BBC	91 04 F 808		TM	SNSE,Xº04º	CHECK FOR UCB PARITY CHECK
		*	2105UC ¥1011	IS INTERVENTION REQ SWITCH SET		001800	47 80 F BCE		BC	NONE, UCBN30	BRANCH IF NOT UCB PARITY CK
001AF4	91 01 F 122	UCBMOS TH	SIDSWS,X'01'	BRANCH IF OFF		001BC4	OA DO	UCBN25	SVC	X'DO'	ERROR MESSAGE- UCS BUFFER PROBLEM
001AF8	47 80 F 806	80	NONE, UCBM20	PRINT HESSAGE - SYNC CHECK		001866	44		DC	X*44*	**
OOLAFC	OA DO	UCBM10 SYC	X.DO.	**	1.	001867	07		DC	X'07'	••
OOLAFE	44	DC	X'44'	**************************************	100	001868	FE75		DC	AL2(ERRO23-BASE+REG)	
001AFF	07	DC	AL2(ERRO37-BASE+REG)	•		0018CA	47 FO F 92A		BC .	UNC, EXIT	
001B00	FED7	DC BC	UNC EXIT		-			*			
001802	47 FO F 92A	*	OHC &CXII		÷	001BCE	91 08 F 808	UCBN30		SNSE,Xº08	CHECK FOR DATA-CK
	a: 02 5 007	UCBM20 TM	AGSTAT,Xº02°	WAS UNIT CK STATUS PRESENT		001BD2	47 10 F BFC		BC.	ALL,UCBN35	BRANCH IF DATA CK -FALSE-
001806	91 02 F 807	BC BC	NONE - UCB NOO	BRANCH IF NO UNIT CK		001806	91 02 F 808		TM	SNSE,X'02'	CHECK FOR UNUSUAL COMMAND
00180A	47 80 F B46	*	10002 9 0 0 0 0 0			0018DA	47 10 F B3C		BC	ALL,UCBM52	BRANCH IF UNUSUAL COMMAND -FALSE-
001005	91 04 F 808	TM	SNSE , X 104 1	CHECK FOR UCB PARITY				*	TM	FHEE VIOLE	CHECK FOR EQUIPMENT CK
00180E	47 80 F B24	BC	NONE, UCBM50	BRANCH IF NO UCB PARITY		0018DE	91 01 F 808		TM	SNSE +X*01*	BRANCH IF OFF
001812 001816	0A D0	UCBM30 SVC	X * DO *	ERROR MESSAGE- UCB DATA-REG PROBLEM		001BE2	47 80 F C1C		BC	NONE, UCBPOO	DRAILCH II CII
001818	44	DC	X 144 1	OR UCB PARITY CIRCUITS PROBLEM		001054	41 10 0 003		LA	R1,2(0,0)	CHECK FOR PRINT CHECKSSET MASK
001819	07	DC	X'07'	gen e e en en en en en en en en en en en en en		0018E6 0018EA	41 10 0 002 45 80 F 9D8		BAL	R11.BITCKO	GO CHECK FOR 6 BITS IN CK READ
001B1A	FEGE	DC	ALZ(ERRO22-BASE+REG)	11			47 FO F CO6		BC	UNC , UCBN40	, NO BITS FOUND, BR NO PRINT CK
001B1C	92 84 F 751	MVI	SCHNUH, X º 84 º	SET UP SEARCH FOR UCB DATA REG FLT		0018EE	0A D0		SVC	X'DO'	PRINT MESSAGE - FALSE PRINT CHECK
001820	47 FO F 92A	BC BC	UNC, EXIT			001BF2 001BF4	44		DC ·	X°44°	91
WO KOEO		•			*	0018F5	07		DC	x.07.	
001824	91 10 F 808	UCBM50 TM	SNSE ,X 10 '	HAS EQUIP OK ON		0018F6	FEC2		DC	ALZ(ERRO34-BASE+REG)	• • • • • • • • • • • • • • • • • • • •
001828	47 10 F DC8	BC	ALL, UCBR80	GO PRINT -FALSE EQUIP CK		0018F8	47 FO F 92A		BC	UNC PEXIT	
00 1 B 2 C	91 08 F 808	TM	SNSE,X'08'	WAS DATA CK ON		0018FC	OA DO	UCBN35		X.00.	PRINT MESSAGE - FALSE DATA CHECK
001830	47 10 F BFC	BC	ALL UCBN35	GD PRINT -FALSE DATA CK WAS UNUSUAL COMMAND SEQ ON		OOIBFE	44		DC	X . 44 .	
001834	91 40 F 808	TM	SNSE . X 140 1	GO PRINT FALSE UNIT CK		0018FF	07		DC	X'07'	
001838	47 80 F DEA	ВС	NONE , UCBS05	ERROR MESSAGE-FALSE UNUSUAL COMMAND		00100	FEB4		DC	AL2(ERRO32-BASE+REG)	
001B3C	OA DO	UCBM52 SVC	X.DO.		1. 1. 1.	001002	47 FO F 92A		BC .	UNC ,EXIT	
00183E	44	DC	X*44*		<u> </u>			*	,		
00183F	07	DC	X'07'		1	001006	41 10 0 001	UCBN40	LA	R1,1(0,0)	CHECK FOR PARITY CKS-SET MASK
001840	FE67	DC	ALZ(ERROZ1-BASE+REG)		+ 1	001C0A	45 BO F 9D8		BAL	R11,BITCKO	,, GO CHECK FOR 7 BITS IN CK READ
001842	47 FO F 92A	80	UNC . EXIT			001C0E	47 FO F DC8		BC	UNC . UCBR80	., NO BITS FOUND, BR NO PARITY CK
		# HCBNOO 1 A	PG.DATA2	INIT INDEX 9 TO START OF UCS DATA		and the service of					GO TO FALSE EQUIP CK MESSAGE
001846	41 90 F E60	UCBNOO LA	R9.DATA2								
							24 111145 22 111145	150075 15	ner45	AAVOURT AAGERRE	1D F80C-5
			ISMARAS ISNOVA6	ID F8CC-5		DATE	16JUN65 22JUN65	15JUL65 15	UE (0)	15MAR66 15NOV66	PACE 13A

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F80C 2821 SCAN, 1403 UNIVERSAL CHARACTER SET F80C5 CONTROL ROUTINE OVERLAY 2

FROC 2821 SCAN, 1403 UNIVERSAL CHARACTER SET FBOCS CONTROL ROUTINE OVERLAY 2

						하는 여러 살림이 있는 중인한 학교는
001C12	OA DO			SVC	X.DO.	RETURN HERE WITH PARITY ERRORS
001014	44			DC	X*44*	PRINT MESSAGE-INTERMITTANT PRINT
001C15	07			DC	X*07*	BUFFER OR PARITY ERRORS
001C16	FE7C	•		DC	AL2(ERRO24-BASE+REG)	
001C18	47 FO F	92A		BC	UNC, EXIT	
	43.05.5	004	UCBP00	t A	RO,CKRDAR+1(R5)	SET UP FOR MAXIMUM COUNT
001616	41 05 F 41 10 F		000100	LA	R1.CKRDAR+1	INITIALIZE INDEX 1
001C20 001C24	91 04 1		UCBP 05		O(R1),X'04'	CHECK FOR PLC BIT
001024	47 80 F			8C	NONE, UCBP10	BRANCH IF NO PLC BIT
001020	41 11 0			LA	R1,1(R1,0)	UPDATE INDEX
001C30	15 01			CLR	RO,R1	WERE ALL POSITIONS CHECKED
001C32	47 60 F			8C	UNEQ,UCBPO5	GO CHECK NEXT POSITION
001C36	47 FO F	C44		BC	UNC + UCBP50	
	04.00		UCBP10	SVC	X*D0*	PRINT MESSAGE-COMPARE + SET PLC
001C3A	0A DO 44		OCDETO	DC	X * 44 *	CIRCUITS PROBLEM
001C3C	07			DC	₹°07°	
001C3E	FE83			DC	AL2(ERRO25-BASE+REG)	• •
001640	47 FO F	92A		BC	UNC, EXIT	
						CCT LIB MAY ADDRECE
001C44	41 00 F		UCBP50		RO,DATAZ+7	SET UP MAX ADDRESS UPDATE INDEX 9 BY 1
001C48	41 99 0	001		LA	R9,1(R9,0)	HERE ALL BITS CHECKED
001C4C	15 09	844		CLR BC	RO,R9 UNEQ,UCBN10	GO GET NEXT BITS
001C4E	47 50 F	DAA		86	Out 64 oc pur c	
001052	07 81 F	57C F 57C		ХĊ	UCSAR(130),UCSAR	RESET UCS LOAD AREA TO OO
001058		SFE F SFE		XC	.UCSAR+130(111),UCSAR+	130 ,,
001C5E		760 F 570		MVC.	WRAREA+1(132),UCSAR+1	
001664	96 20 F			01	PROGSW.Xº20°	SET SW TO IGNORE LOGOUT OF READ DATA
001668	41 00 F			LA	RO,LDUCS1	LOAD ADDR OF UCS LOAD CCW STORE CCW ADDR IN CAW
001C6C	50 00 F	048		ST	RO,CAX	THIS IS A PRELOAD UCS COMMAND,
						CHAINED TO A UCS LOAD COMMAND
001670	92 00 F	122		MVI	SIDSHS,Xº00°	RESET SIO SWITCHES
001C70 001C74	45 BO F			BAL	R11,SIO	GO TO START I/O ROUTINE
001C78	45 BO F			BAL	R11, SAVSTA	GO SAVE STATUS AND SENSE DATA
0020.0	1,5 55 .		*			
001C7C	91 02 F	807		TM	AGSTAT,Xº02º	WAS UNIT-CK ON FROM LOADING UCS
001C80	47 80 F		and the second	BC	NONE , UCBROO	BRANCH IF OFF
001C84	91 04 F			TH	SNSE , X 104 1	WAS UCB PARITY ON BRANCH IF ON
001088	47 10 F	C96		BC SVC	ALL,UCBQ20 X°DO°	PRINT MESSAGE-UNDEFINED INTERMITTANT
001C8C	44			DC	X *44 *	** ERROR
001C8F	07			DC	X * 07 *	
001690	FE8A			DC.	AL2(ERRO26-BASE+REG)	•
001092	47 FO F	92A		BC	UNC .EXIT	
						ORT MEC. MER DADITY CHECK BOOD
001 C96	OA DO		UCBQ20		X *DO *	PRT MSG - UCB PARITY CHECK PROB
001098	44			DC DC	X*44 * X*07 *	
001C99 001C9A	07 FE91			DC	AL2(ERRO27-BASE+REG)	
001090	47 FO F	92A		8C	UNC, EXIT	
			ing State 🛊 🛒 🕒			
001CA0	94 DF F	929	UCBROO		PROGSW.X DF .	RESET SKIP READS DATA LOGOUT SW.
001CA4	92 FF F			NVI	WRAREA+1,X*FF*	SET PRINTER WRITE AREA TO ALL FF
001CA8		76E F 760		MVC	WRAREA+2(131),WRAREA+	
OOLCAE	41 00 F			LA	RO-DPRCCW	LOAD ADDR OF DIAG WRITE CCW STORE CCW ADDR IN CAW
001682	50 00 F			ST	RO,CAN SIDSWS,X*00*	RESET SIO SWITCHES
001CB6	92 00 F 45 B0 F			BAL	R11,SIO	
~~~~~						
OOLCBE	45 BO F	9FA		BAL	R11, SAVSTA	GO SAVE STATUS + SENSE DATA
001CC2	45 AO F			BAL	R10, READS	GO DO CHECK READ + DATA READ
001006	91 02 F			TM	AGSTAT,X*02*	WAS UNIT-CK ON FROM DIAG WRITE
001CCA	47 80 F	CD8		BC	NONE, UCBR20	BRANCH IF OFF
						[라틴슨 사람이라고 아니라 사람들이 나를 걸었다. 하나 사람이 있다.
NATE	16JUN65	22JUN65	15JUL65 15	DEC 65	15MAR66 15NOV66	1D F8CC-5
	124263	124249		5601	125632 125655	PAGE 14
					병교 그리는 일이 그리지 않는 사람들이 되었다.	일을 보고 있는데 보게 얼마나 하면 보다는 사람들이 다른데 다른데 다른데 다른데 되었다.

		e el							
DOICCE	0	A DO				UCBR10	SVC	X*D0*	PRINT MESSAGE - INTERMITTANT OR
001000	4	7.7					DC	X * 4 4 °	** FALSE ERRORS
001CD1	0						DC	X*07*	and the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second o
001002		E98					DC	ALZ (ERRO28-BASE+REG)	
001002	-		-	92A			BC	UNC .EXIT	
COLCUM		ru	: ar	YZA	All Commences		D.	OUC PEXII	
001000						*		00 640040-14061	
001008				80A		UCBR20		RO,CKRDAR+1(R5)	SET UP MAX COUNT
OOICDC				80A			LA	R1 CKRDAR+1	INIT INDEX TO START OF AREA
OOICEO				000		UCBR25		O(R1),X'04'	CHECK FOR PLC BIT
001CE4				CF6			BC	ALL,UCBR30	BRANCH IF PLC PRESENT
001CE8				001		100	LA	R1,1(R1,0)	UPDATE INDEX BY 1
OOICEC		01					CLR	RO,R1	WERE ALL POSITIONS CHECKED
DOICEE	4	60	7	CEO			BC	UNEQ,UCBR25	GO CHECK NEXT POSITION
001CF2	· ly	7 F0	F	000			8C	UNC,UCBR40	NO PLC BITS FOUND
						*			
001CF6	0.	A DO				UCBR30	SVC	X*DO*	PRINT MESSAGE-INSERT UCS BLANKS OR
001CF8	4						DC	X * 4 4 *	PLC INKIBIT PROBLEM
001CF9	0						DC	X*07*	
001CFA		DE					DC .	ALZ(ERRO38-BASE+REG)	
001CFC				92A					9,8
903666	. *	ru	-	764		*	BC	UNC , EXIT	
001000			2.	66D		- · ·		00 110040 1013	664 116 WAY 241114 65
			-			UCBR40		RO,UCSAR+241	SET UP MAXIMUM COUNT
001004			_	001	•	-	LA	R2,1(0,0)	SET CHAR REG TO 01
001008				570			LA	R1,UCSAR+1	INITIALIZE INDEX REG 1-LOAD AREA PO
OOIDOC				000		UCBR50		R2,0(R1)	SET CHARACTER IN BUFFER LOAD AREA
<b>001D10</b>				001			LA	R2,1(R2,0)	CHANGE CHARACTER
001014				000			CLI	O(R1),X*40*	WAS A BLANK JUST LOACED
001018				DOC :			BC -	EQ,UCBR50	GO REPLACE BLANK
001D1C	4	11	0	001			LA	R1,1(R1,0)	UPDATE POSITION INDEX BY 1
001020	15	10			and the second		CLR	R1,R0	IS AREA FULL
001022	47	60	۶	DOC			8C	UNEQ,UCBR50	GO SET NEXT CHAR
						*			
001D26	D2	83	F	760	F 57D		MVC	WRAREA+1(132).UCSAR+1	USED FOR LOG OUT DATA
001D2C				929			01	PROGSH, X 20	SET SW TO IGNORE LOGOUT OF READ DAT
001030				E30			LA	RO, LDUCS1	LOAD ADDR OF UCB PRELOAD CCW
001034				048			ST	RO.CAW	
				0.0		*	J.	KUICKE	STORE CCW ADDRESS IN CAW
				7					THIS IS A PRELOAD UCS COPMAND,
001038	. 03	00		122		•		670616 44064	CHAINED TO A UCS LOAD COMMAND
				122	that is a second		HVI	SIOSWS,Xº00'	RESET SIO SWITCHES
00103C	**2	80	۲	228		_	BAL	R11,SIO	GO TO START I/O ROUTINE
						*			
001D40				9FA			BAL	R11,SAVSTA	GO SAVE STATUS + SENSE DATA
001044				807			TM	AGSTAT,X'02'	WAS UNIT-CK PRESENT
001048				D58		•	BC	NONE, UCBR55	BRANCH IF NO UNIT CK
001D4C	91	04	F	808		at at pro-	TM	SNSE , X 104 1	CHECK FOR UCB PARITY
001050				816		•	BC	ALL,UCBM30	BRANCH IF UCB PARITY
001054		FO					BC	UNC + UCBR10	BRANCH FOR ERROR MESSAGE
001058		DF				UCBR55		PROGSW,X*DF*	DECET CHIR BEADE DATA LOCALE
00105C					76D		XC -		RESET SKIP READS DATA LOGOUT SW.
001062				76D F				WRAREA+1(132),WRAREA+	L CLEAK WHITE AREA
					210		MVC	WKAKEA+IIIZOJ,UCSAR+I	SET WRITE DATA IN WRITE AREA
001068		80					10	PROGSW,X'80'	SET SW. FOR 1ST 120 CHARACTERS
001D6C				E40		UCBR60		RO, PRTUCS	LOAD ADDR OF PRINT CCH
001070	. 50	00	۲	048		12	ST	RO.CAW	STORE CCW ADDR IN CAN
			1			•		the state of the state of the	THIS IS A PRELOAD UCS COMMAND.
	400		ŢĠ.						CHAINED TO A PRINT COMMAND.
001074		00					HVI	SIOSWS,X*00*	RESET SIO SWITCHES
001078	45	BO	F	228			BAL	R11,510	GO TO START I/O ROUTINE
	1			4 14			-		TO THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF TH
001D7C	45	80	F	9FA			BAL	R11.SAVSTA	GO SAVE STATUS + SENSE DATA
001080		AO					BAL	RIO, READS	
				· ·			UN L :	NAVSKENUS	GO DO CHECK READ + DATA READ
001084	01	02		807		Table 1	TH	ACCTAT WAGE	
001D88		. ,		-, -			TM	AGSTAT,X'02'	WAS UNIT-CK ON FOR PRINT
201000	7/	80	•	UFC			BC	NONE . UCBTOO	BRANCH IF OFF
001D8C		10		006					보통 등 이번 시장 전 사람들은 사람들은 되었다. 이 기를 받고 했다.
001000	7.	10	_	000			TH	SNSE . X . 10 .	WAS EQUIP-CK SET

NONE , UCB SOO

R1,1(0,0)

15MAR66

125632

15N0V66

125655

BRANCH IF NO

CHECK FOR PARITY CKS-SET HASK

1D F80C-5

47 80 F DD2

41 10 0 001

124263

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15JUL 65

124265

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F80C 2	2821 SCAN, 1403 UNIVERSAL ONTROL ROUTINE OVERLAY 2	CHARACTE	R SET		
1098 1090	45 BO F 9D8 47 FO F DAA	. 8	IAL	R11,BITCKO UNC,UCBR70	GC CHECK FOR 7 BITS IN CK READ NO PARITY FOUND RETURN
1DA0	OA DO		. AC	X*DO* X*45*	PARITY BITS FOUND PRINT MESSAGE - INTERMITTANT OR
1DA2	45	_	)C	X'07'	FALSE PARITY ERRORS
1DA3	07	_	)C	ALZ(ERRO29-BASE+REG)	**
1DA4 1DA6	FE9F 47 F0 F 92A		SC	UNC .EXIT	
JIUAU	4, 10 1 722	<b>#</b>		·	CHECK FOR PRINT CKS-SET MASK
1DAA	41 10 0 002	UCBR70 L		R1,2(0,0)	SE GO CHECK FOR 6 BITS IN CK READ
1DAE	45 BO F 9D8		BAL BC	R11,BITCKO UNC.UCBR80	NO PRINT CKS FOUND RETURN
1082	47 FO F DC8	*	,.		,, GO CHECK FOR UCB PARITY CHECK
		*			WAS PLC PRESENT IN PRINT CK POSITION
1DB6	91 04 F 927		T M	CKDATA,X'04'	GO TO COMPARE PROBLEM PRINTOUT
108A	47 80 F C3A		3 C	NONE, UCBP10	
		*	SVC	X * D O *	PRINT MESSAGE -HAMMER FIRE PROBLEM
IDBE	0A D0		)C	X*44*	**
IDCO	44		DC OC	X*07*	7 7
1DC1	O7 FEA6	_	DC .	ALZ(ERRO30-BASE+REG)	9.9
10C2 10C4	47 FO F 92A	8	ВС	UNC , EXIT	
		\$	e e	vanos.	PRINT MESSAGE - FALSE EQUIP CHECK
1DC8	OA DO	UCBR80		X*DO* X*44*	20
LDCA	44		DC ·	X*07*	9 9
IDCB	07		DC	ALZ(ERRO35-BASE+REG)	9 9
IDCC	FEC9 47 FO F 92A	-	BC	UNC, EXIT	
DCE	48 10 1 725	*			WAS UCB PARITY SET ON PRINT
1002	91 04 F 808	UCB SOO		SNSE, X * 04 *	BRANCH IF ON
DD6	47 10 F DF4	-	BC	ALL,UCBS10	WAS DATA-CK SET ON PRINT
LDDA	91 08 F 808		TM	SNSE,X°08° ALL,UCBP10	GO TO COMPARE + PLC PROB PRINTOUT
1 DDE	47 10 F C3A		BC TM	SNSE * X * O1 *	WAS CHANNEL 9 DETECTED
IDE2	91 01 F 808		BC	ALL,UCBTOO	BRANCH IF DETECTED
1066	47 10 F DFE OA DO	UCB SO5		X * DO *	PRINT MESSAGE - FALSE UNIT CHECK
DIDEA DIDEC	44		DC	X * 4 4 8	9 9
OLDED	07		DC	X'07'	9 9
DIDEE	FEBB		DC	AL2(ERRO33-BASE+REG)	**
DIDFO.	47 FO F 92A		ВС	UNC .EXIT	
	0.4.00	UCB S10	SVC	X*D0*	PRINT MESSAGE- BAD CORE POSITION
DIDF4	0A D0 44		DC	X *44 *	••
01DF6 01DF7	07		DC	X'07'	• • • • • · · · · · · · · · · · · · · ·
01DF8	FEAD		DC	AL2(ERRO31-BASE+REG)	
IDFA	47 FO F 92A		8C	UNC,EXIT	
	talan ya <u>a ga</u> wa kata ka ka	* UCBTOO	TM	PROGSW,Xº80°	IS THIS THE 1ST 120 POSITION PRINT
1DFE	91 80 F 929		BC		BRANCH IF 2ND PASS
1E02	47 80 F E14 D2 77 F 76D F 5F5		MVC.	WRAREA+1(120)+UCSAR+1	121 SET 2ND 120 CHAR IN PRINT AREA RESET 1ST PRINT PASS SHITCH
1E06 1E0C	94 7F F 929		NI	PROGSW,X*7F*	GO PRINT 2ND PASS
1E10	47 FO F D6C		BC	UNC . UCBR60	
· · · · · · · · · · · · · · · · · · ·		\$	CMC	X*D0*	PRINT MESSAGE - NO ERRORS FOUND
1E14	OA DO	OK	SVC DC	X*04*	7 7
1E16	04		DC	X OF *	<b>* ?</b>
)1E17 )1E18	OF FEE5	The second second	DC	ALZIOKHESS-BASE+REGI	<b>♥ ♥</b>
LEIA	47 FO F 92A		BC	UNC EXIT	
. <del> </del>			100		
		*		CONSTANTS	
		*		CCM TABLE	
		•			DOUBLE HORD ALTONMENT
1E1E			CNOP	0,8	DOUBLE WORD ALIGNMENT
01616	07 00	80	CR	0,0	,152 DIAG WRITE TO PRINT BUFF, SLI ON
01E20	05 00176D 2000 0098	DPRCCH	CCM	X*05*, WRAREA+1, X*20*	I DIAL MRILE IN PRINT DOLLE OF THE
01E28	05 00176D 2000 0001	PRCCW2	CCM	X'EB', UCSAR, X'00',1	PRELOAD UCB, SLI ON, COMMAND CHAIN
01E30	EB 00157C 6000 0001	FDOC31			
14 18 1					ID F80C-5
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		•			
F80C	2821 SCAN, 1403 UNIV	ERSAL CHARAC	TER SE	ET	
F80C5	CONTROL ROUTINE OVERL	AY 2			
	•				
001530	ER 001570 2000 010		CCW	X "FB ", UC SAR+1, X "20"	.260 LOAD UCB.NO FOLD.SLI ON
001E38	FB 00157D 2000 010	•	CCM	A PB - JUC SAR+1 JA - 20 - 1	,280 LUAD UCB,NU FULD,SL1 UN, ,,
001 E40	EB 00157C 6000 000	1 PRTUCS	CCM	X'EB',UCSAR,X'60',1	PRELOAD UCB, SLI ON, COMMAND CHAIN
001E48	09 00176D 2000 007		CCH	X 09 , WRAREA+1, X 20	
		*			
001E50	EB 00157C 6000 000			X'EB', UC SAR, X'60',1	PRELOAD UCB, SLI ON, COMMAND CHAIN
001E58	FB 00157D 2000 000	1	CCM	X *FB *, UC SAR+1, X *20 *;	,1 LOAD UCB, NO FOLD, SLI ON ,,
		# *			•
001E60	COEOFOF8FCFEFF	DATA2	nc ·	X'COEOFOF8FCFEFF'	WRITE UCS BUFFER DATA
001200	COLOTOTOTCT	*	-	x 0000. 0. 0. 0. c	
	*			ERROR MESSAGES	
			. * *	COROL CONDITIONS	
			11.	ERROR CONDITIONS	
001E67	C5D9D940F0F2F1	ERRO21	DC -	C'ERR 021'	FALSE UNUSUAL COMMAND SEQUENCE
001E6E	C5D9D940F0F2F2	ERR022		C'ERR 022'	UCS DATA REGISTER PROBLEM
		√ <b>*</b>			OR UCB PARITY CIRCUITS PROBLEM
001E75	C5D9D940F0F2F3	ERR023		C'ERR 023'	UCS BUFFER PROBLEM
001E7C	C5D9D940F0F2F4	ERRO24	DC	C'ERR 024'	INTERMITTANT PRINT BUFFER OR PARITY
001555	#EDODO/ 0505055	* * EDD 0.25	D.C	CIEDD AZE!	** ERRORS COMPARE PROB + ASSOCIATED SET PLC
001E83	C5D9D940F0F2F5	ERRO25	DC	C'ERR 025'	CIRCUITS
001E8A	C5D9D940F0F2F6	ERRO26	DC	C'ERR 026'	UNDEFINED INTERMITTANT ERROR
001E91	C5D9D940F0F2F7	ERRO27		C'ERR 027'	INTERMITTENT UCS DATA REGISTER
		. *			. PROBLEM OR INTERMITTENT UCB
•		. •			,, PARITY CHECK CIRCUITS PROBLEM
001E98	C5D9D94OF0F2F8	ERRO28		C'ERR 028'	INTERMITTANT OR FALSE ERROR INTERMITTANT OR FALSE PARITY CKS
001E9F	C5D9D940F0F2F9	ERR029 ERR030		C'ERR 029' C'ERR 030'	HAMMER FIRE PROBLEM
001EA6	C5D9D940F0F3F0 C5D9D940F0F3F1	ERRO31		C'ERR 031'	BAD UCS BUFF CORE ABOVE POS 81 OR 89
001EB4	C5D9D940F0F3F2	ERR032		C'ERR 032'	FALSE DATA CHECKS
001E88	C5D9D940F0F3F3	ERR033		C'ERR 033'	FALSE UNIT CHECK
001EC2	C5D9D940F0F3F4	ERR034	DC	C'ERR 034'	FALSE PRINT CHECK
001EC9	C5D9D940F0F3F5	ERR035		C'ERR 035'	FALSE EQUIPMENT CHECK CSW WRONG COUNT-PROBABLE BAR ADVANCE
001ED0	C5D9D940F0F3F6	ERRO36	DC	C'ERR 036'	PROBLEM - UCB
001ED7	C5D9D940F0F3F7	ERRO37	DC	C'ERR 037'	SYNC CHECK- PROBABLE ADV BY 2 PROB.
001501	030707.0.0.3.	*			OR BAR UNITS ENCODE ADV
		*			BY 3 PROBLEM
OOLEDE	C5D9D940F0F3F8	ERR038	DC	C'ERR 038'	PLC INHIBIT PROBLEM
	~ F ~ / / O C T D O B @ D / B O C O	\$ \$	0.0	C • NO ERRORS FOUND •	
001EE5	05D640C5D9D9D6D9E2 40C6D6E4D5C4	OKMESS	UC	C'NO ERRORS FOORD	
OOIEEE	4000000240504	*			
		•			
	• •	•		EQUATES	
		*	E011	64	HARDWARE CSW LOCATION
	000040 000048		EQU .	72	MARDWARE CAW LOCATION
	000078		EQU	120	HARDWARE I/O NEW PSW LOCATION
	001118			\$10VR3	
	00157C		EQU	SCPDAT	OUTPUT AREA EQUALS SCOPE DATA AREA
		*	34121		HECC
				GENERAL REGISTER EQU	JAICS
	000000	RO .	EQU	0	
. diline i f	000001		EQU	1	
	000002		EQU	2	
400	000003		EQU	3	
	000004		EQU	i 👲 je sa sa sa sa sa sa sa sa sa sa sa sa sa	
	000005		EQU	. <b>5</b>	
and the second	000006		EQU	. <del>4</del>	
	000007 000008		EQU	8	
	000009		EQU	9	
	A0000A	R10	EQU	10	얼마 그는 그는 항상 강선들이 회사를 가는 수 있었다.
			1		
	47 110175 33 110175	16111146 15	DEC 65	15MAR66 15NOV66	ID F80C-5
DATE EC			5601	125632 125655	PAGE 15A
	and the TV the territory of the territory of the territory of the territory of			마늘은 본 아이들의 회의 다	

F80C 2821 SCAN, 1403 UNIVERSAL CHARACTER SET F80C5 CONTROL ROUTINE OVERLAY 2

the second second second						
O0000B	R11 EQU	11				
00000C	R12 EQU	12			7.5	
00000D	R13 EQU	13				•
30000E	R14 EQU	14				
00000F	R15 EQL	15			٠.	
00000		٠			rant.	
		CONDITION CODE	EQUATES			
				· _		
000008	NONE EQU	8	ALL OFF	0		
000005	ANY EQL		ANY ON	. 1	3	
000003	ALL EQU		ALL CN		3	3
000001	SOME EQU	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	MIXED	. 1		
	NMIXED EQU		NOT MIXED	0	3	3
000009	EQ EQU		EQUAL	0		
000008	UNEQ EQU		NOT EQUAL	1	2	
000006			LOW	1.		
000004			HIGH		2	
000002			ZERO	0		
800000	Z EQU		GREATER ZERO	-	2	
000002	POS EQU		AVAILABLE	0	_	
000008	CCO EQU		CSW STORED	٠,		
000004	CC1 EQ		BUSY	•	2	
000002	CC2 EQ		UNCONDITIONL	0 1	2 3	2
00000F	UNC EQU		• • • • • • • • • • • • • • • • • • • •	0 1		3
00000D	NOTBSY EQU		NOT BUSY	0 1	2	
000007	NZ EQ		NOT CC 0		٤.:	7
000004	NEG EQ		NOT ZERO -AND-		:	
200000	ZNEG EQ	1 12	MIXED OR NONE	0 1		_
00000B	CSWNST EQ	j 11	CSW NOT STORED		2 3	
00000D	NHIGH EQ	13	NOT HIGH	0 1		3
001000	BASE EQ		· · · · · · · · · · · · · · · · · · ·			
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POST ASSEMBLY DATA.

REFERENCES TO DEFINED SYMBOLS.

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7	R7							4.1	
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9	R9	1846,							
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5	ANY		** *						
1048	CAW	1AD2,	1864.	1BAO,	1C6C,	1CB2,	1034,	1070	
8	CCO								
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8	BTXT.AKPA8AASGBA 9	+ADADOJGABBA+AHLAHAJ YO-9 ZZYQ Z YR8YRQZ 9 Z 9099 9	HAJAMNB+A1DA•ODGABFE -Zyyz89 Q 8- 9ZyQQZ 99 9 9 29	A6HAABH+A0HB80C50043 Y RZYQZ Y Z- 0 9Z 9	BTXT.ADPA8AAEST. FOR.OUTPUTERR.OO1ERR 9	.002ERR.003ERR.004ER	R.005ERR.00680C50060
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	BTXT.ALGABAAG8G7 9	VGADQKA558GKB5655AD0 8ZYQZ Y 8 Y 0 8 8-9 Z 9	JGADSNC558GGAD2G0D4N ZZQQ8 0 8 YZYQ8Z Q9 9Z9 Z9 Z	G558GGAD280D80C50049 R 8 YZYQ88-Z O Z99	BESDAAAAXF80 C5AAAA.AF4 9 YQ Y9 YYQY Y8 99 9 9999 99		encenner
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80C 2821 SCAN 1403 UCS	OVERLAY 1 + 2				F80C 2821 SCAN 1403	UCS OVERLAY 1 + 2		PAGE
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IBM MAINTENANCE DIAGNOSTIC PROGRAM	P/N 840225 IB	M MAINTENANCE DIAG	SNOSTIC PROGRAM			P/N 840225
	PAGE 1	-	•			PAGE 1A
F80C 2821 SCAN, 1403 UNIVERSAL CHARACTER SET F80D3 PRINT BUFFER DATA REGISTER ROUTINE OVERLAY 3			403 UNIVERSAL CHARACT DATA REGISTER ROUTINE		* .	-
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80D3 TITLE F80D3 PRINT BUFFER DATA REGISTER ROUT		•	0010E0 UNIT1 0010E2 U1ADDR 001118 SIOVR3	EQU SECNO+226 EQU SECNO+280		
* MODIFICATIONS	*		001108 SIOVR4 001122 SIOSWS			
* REVISION LEVEL 3. THIS REVISION DIFFERS FROM * FOLLOWS	M VERSION 2 AS *		00119F STATSV 0011A4 CSWAG 001121 CAWKEY	EQU: SECNO+420		
* 1. PRINT BUFFER DATA REG FLT -ROUTINE OV  THIS ROUTINE WAS NOT MODIFIED.	ERLAY 03- *	•	001120 SENSE 00157C SCPDAT 001678 SCPR00	EQU SECNO+288 EQU SECNO+1404		
* 2. UCS DATA REG FLT -ROUTINE CVERLAY 04-  * A MESSAGE WAS ADDED TO INDICATE THAT  * THE UCS BUFFER WAS DESTROYED, AND COU	THE CONTENTS OF *			EQU SECNO+552 EQU SECNO+1873		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
* BY PROGRAM F837.  * 3. UCS BUFFER RESTORE RTN -ROUTINE OVERL.  * THIS ROUTINE WAS DELETED FROM THE PRO	AY FF- *	1015 001830	****** 001015		**************************************	
* THE SCAN PROGRAMS NO LONGER RESTORE TO * THEREFORE, DATA CARDS DEFINING THE UC * CONFIGURATION ARE NOT TO BE ADDED TO	HE UCS BUFFER * ICS CHAIN *		00176C ******	ORG SECNO+1900	**********	
* PROGRAM F837 IS TO BE USED TO RESTORE  * ENGINEERING CHANGE PREREQUISITES	THE UCS BUFFER. * OO:	176C	*****	**************************************	- DOUBLE WORD BOUNDARY +++**********************************	
* 1. MACHINE * 2821 CONTROL UNIT WITH 1403 UCS ATTAC	* 00	176C 07 00 176E 07 00 1770 00000000	BC BC WKAR			
* E.C. LEVEL 125655 * 2. PROGRAM * NONE		1774 00000000 1778 00000000	****	*******	*******	*****
* * USE DESCRIPTION F80C* AT E.C. 125655, DATED	2				- NO BOUNDARY	*
**************************************	*******	177C 0000000000 1785 00	-			, remarks
* REVISION LEVEL 2. THIS REVISION DIFFERS FROM  * FOLLOWS	VERSION 1 AS # 00	1786 80 1787 0000000000 1790 40	DAT80 000000000 DAT40	DC XL9'00*		adirentes (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (Manuelles (
* 1. PRINT BUFFER DATA REG FLT -ROUTINE OVE * THIS ROUTINE WAS NOT MODIFIED	# 00 ERLAY 03- # 00	1791 000000000 179A 20 179B 000000000	DAT20	DC XL9'00' DC X'20' DC XL9'00'		Sh. mada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada washingada wa
2. UCS DATA REG FLT -ROUTINE OVERLAY 04-     THIS ROUTINE WAS NOT MODIFIED     3. UCS BUFFER RESTORE RTN -ROUTINE OVERLAY	* 00: * 00:	17A4 10 17A5 000000000 17AE 08	DAT10	DC X19'00'		
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* SENSE SWITCH 28 IS SET TO 1, THE DATA  * WILL BE TURNED -ON-OTHERWISE, THIS LATE  * IN THE -OFF- STATE.	TCH WILL REMAIN *	17B9 0000000000 17C2 02 17C3 0000000000	DAT02	DC XL9'00'		
* ENGINEERING CHANGE PREREQUISITES * 1- MACHINE	* 00 * 00	17CC 01 17CD 0000000000 17D6 00	DAT01 DAT00	DC XL9'00'		
* 2821 CONTROL UNIT WITH UCS ATTACHMENT  * E.C. LEVEL 125632  * 2. PROGRAM	AT MINIMUM * 00:	17D7 0000000000 17E0 FF 17E1 0000000000	000000000 DATFF	DC XL9'00'		and the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of th
* NONE  * USE DESCRIPTION F80C* AT E.C. 125632, DATED	* 00 * 00	17EA D5D640C4C1 17F3 D9C1D5E2C6	E3C140E3 MSG1 6C5D9	DC C'NO DATA TRANSFER®  DC C'RED BY DIAGNOSTI®		,
* ************************************	* 00 **********************************	17FA D9C5C440C2 1803 C1C7D5D6E2 180A C340C3C8C5	2E3C9 5C3D240D9	DC C'C CHECK READ FOR'		
XF80D3 START 4096 001000 USING *.15 ***********************************	00:	1813 C5C1C440C6 181A 40C4C5E5C9 1823 E7E7	C3C540E7	DC C. DEAICE XXX.		
* ROUTINE OVERLAY 3 ************************************	* 00	1825 C5D9D940F0	******	DC C'ERR 000 ' *********************************	****	********
**************************************		182E	******	**************************************	**************************************	*****
001004 SNSW EQU SECNO+4 001040 CSW EQU SECNO+64	00:	182E 07 00 1830 03	BC R TNO3	R 0,0	ROUTINE NUMBER	*
DATE 16JUN65 15JUL65 15MAR66 15NDV66 EC 124263 124265 125632 125655	ID F80D-3 DA PAGE 1 EC			0V66 655		ID F80D-3

F80 <b>C</b>	2821	SCAN, 1403	UNIVERSAL	CHARACTE	R SET
F80D3	PRINT	BUFFER DAT	A REGISTER	ROUTINE (	OVERLAY 3

	2821 SCAN, 1403 UNIVERSAL CHAR PRINT BUFFER DATA REGISTER ROUT					2821 SCAN, 1403 UNIVERS Rint Buffer Data Regist			
001831 001832	00 FFFE	DC DC	XL1 00 X FFFFE	FLAGS ADDRESS OF NEXT ROUTINE	00191E 001920	F7EA 47 F0 F 8E2	DC BC	AL2(MSG1-BASE+REG) UNC,PBDR20	,, ADDRESS OF MESSAGE GO TRY DIAG CK READ AGAIN
001834 001838	95 83 F 751 PBDR 47 80 F 83E	ROO CLI BC	SCHNUM, X'83' EQ, PBDR01	SEE IF SEARCHING FOR ROUTINE 03 RUN RTN 03 IF YES			* DATA	ANALYSIS ROUTINE	*
00183C 00183E	0A D6 91 02 F 004 PBDR	SVC .	X'D6' SNSW, X'02'	ROUTINE EXIT BR IF SEC SS 06 IS 1 - PRINT TITLE	001924	41 10 F 786	PBDR30 LA	R1,DAT80	INITIALIZE ANALYSIS ROUTINE
001842	47 80 F 84C	BC	NONE, PBDRO2	BR IF NO	001928 00192C	41 30 F 57C D2 09 F 77C <b>1 000</b>	PBDR31 MVC	R3,SCPDAT DATWK(10),O(R1)	MOVE DATA GROUP INTO WORK AREA
001846 001848	0A D0 80	S VC DC	X'DO' X'80'	PRINT TITLE  • NORMAL OUTPUT	001932 001936	43 40 F 77C 92 00 3 000	IC MVI	R4,DAWR	SET UP MASK SET SW SAYING EXPECTED BIT OFF
001849 00184A	2D FB08	DC DC	X'2D' AL2(TITLE-BASE+REG)	,, 45 CHARACTERS ,, ADDRESS OF MESSAGE	00193A	44 40 F 974	EX	R4,PBDR37	SEE IF EXPECTED BIT ON
00184C	91 40 F 004 PBDR	102 TM	SNSW, X 40 1	SEE IF SEC SS O1 IS 1 - WANT UTILITY	00193E 001942	47 80 F 946 92 FF 3 000	BC MVI		BR IF NO SET UP TO SAY EXPECTED BIT ON
001850 001854	47 80 F 858 45 80 F 678	BC Bal	NONE, PBDR10 R8, SCPR00	BR IF NO BR TO UTILITY ROUTING	001946	92 00 3 014	PBDR32 MVI	20(R3),X'00'	SET SW SAYING DID NOT GET CH END PAR
	*				00194A 00194E	91 01 F 780 47 80 F 95E	TM BC		SEE IF GOT PARITY BR IF NO
	· · · · · · · · · · · · · · · · · · ·	DATA	COLLECTION ROUTINE		001952 001956	.91 02 F 77D 47 80 F 95E	TM BC		SEE IF GOT UC WITH CE BR IF NO
001858 00185C	41 10 F 786 PBDR 41 20 F 7EA	110 LA LA	R1.DAT80 R2.DATFF+10	INITIALIZE	00195A	92 FF 3 014	MVI	20(R3),X'FF'	SET SW SAYING GOT PARITY WITH CE
001860	D2 00 F 77C 1 000 PBDR	11 MVC	DATWK(1),0(R1)	MOVE DATA TO WORK AREA	00195E 001962	41 10 1 00A 41 30 3 001	PBDR33 LA La	R1,10(R0,R1) R3,1(R0,R3)	UPDATE ADDRESSES
001866 00186C	D2 00 F 57C F 77C D2 00 F 57D F 57C	M V C M V C	SCPDAT(1),DAWR SCPDAT+1(1),SCPDAT	SET CHAR TO BE WRITTEN IN WRITE AREA	001966 001968	15 12 47 60 F 92C	CLR	R1+R2	SEE IF FINISHED
001872 001876	92 00 F 122 41 00 F AFO	MVI La	SIOSWS,X*00* RO,WRCCW	SET SIO PROGRAM SWITCHES	00196C	41 20 F 7E0	BC LA		CONTINUE SET UP GR 2
00187A	50 00 F 048	ST	RO,CAW	LOAD DIAG WR CCW ADDR IN CAW	001970 001974	47 FO F 978 91 00 F 781	BC PBDR37 TM	UNC,PBDR40 DARD,X*00*	TEST IF BIT READ OK - USED WITH EX
00187E 001882	48 CO F 0E2 45 BO F 228	LH BAL	R12,U1ADDR R11,SIQ	LOAD PRINTER I/O ADDR IN GR 12 GO PERFORM DIAG WR			*		TOTAL NEW ON OSED WITH EX
001886	D2 00 F 77D F 11C	MVC	STAT1(1),CSWSAV+4	SAVE DIAG WR CH END STATUS	001978	92 00 F 5AE	* PBDR40 MVI	SCPDAT+50,X 00	SET UP COMPARE FIELDS
00188C 001892	D2 00 F 77E F 19F D2 00 F 77F F 120	MVC	STAT2(1),STATSV WRSNS(1),SENSE	SAVE DIAG WR DEV END STATUS SAVE DIAG WR SENSE DATA	00197C 001982	D2 08 F 5AF F 5AE 92 FF F 5C2	MVC MVI	SCPDAT+51(9),SCPDAT+50 SCPDAT+70,X'FF'	11
001898 001890	45 80 F 8E2 D2 00 F 780 F 57C	BAL MVC	R8,PBDR20 WCKRD(1),SCPDAT	GO DO DIAG CK READ	001986	D2 08 F 5C3 F 5C2	MVC	SCPDAT+71(9),SCPDAT+70	**************************************
001070	* -	n vo	HCKKU (1//SCPUA)	SAVE DIAG CK READ DATA	00198C 001992	D5 07 F 57C F 5AE 47 60 F 9AO	CLC BC		SEE IF UNABLE TO TURN ON ANY DR BIT BR IF NO
0018A2	* 41 00 F AF8	LA	RO, RDCCW	LOAD DIAG DATA RD CCW ADDR IN CAW	001996	OA DO	SVC		ERR 050 - NO PR BUF DAT REG BITS CAN
0018A6 0018AA	50 00 F 048 92 00 F 57C	ST	RO,CAW	,,			*		,, BE TURNED ON - PRINT BUFFER DATA ,, REG RESET MAY BE ON SOLID
0018AE	45 BO F 228	MVI Bal	SCPDAT,X'00' R11,SIO	CLEAR READ AREA GO PERFORM DIAG DATA READ	001998 001999	44 07	DC DC	X'44' X'07'	,, ERROR OUTPUT ,, 7 CHARACTERS
001882 001888	D2 00 F 781 F 57C D2 00 F 782 F 1A8	MVC MVC	DARD(1),SCPDAT STATRD(1),CSWAG+4	SAVE READ DATA SAVE READ STATUS	00199A	FB49	DC	AL2(ERRO50-BASE+REG)	,, ADDRESS OF MESSAGE
0018BE	D2 00 F 783 F 120	MVC	RDSNS(1), SENSE	SAVE READ SENSE DATA	00199C	47 FO F A70	BC <b>*</b>	UNC, LGOUT	GO SEE IF WANT LOG OUT
0018C4 0018C8	45 80 F 8E2 D2 00 F 784 F 57C	BAL MVC	R8,PBDR20 RCKRD(1),SCPDAT	GO DO DIAG CK READ SAVE DIAG CK READ DATA	001940	91 FF F 7DB	*	DATOO E VICE	CES 15 111 0171 050 0170 011 011 011
	*				0019A4	47 10 F 9AC	PBDR50 TM BC		SEE IF ALL DATA REG BITS ON SOLID BR IF YES
0018CE	D2 09 1 000 F 77C	MVC	O(10,R1),DATWK	SAVE COLLECTED DATA	0019A8 0019AC	47 FO F 9B6 OA DO	BC PBDR51 SVC		CONTINUE ANALYSIS ERR 051 - ALL PRINT BUFFER DATA REG
0018D4 0018D8	41 10 1 00A 15 12	LA CLR	R1,10(R0,R1) R1,R2	ADD 10 TO GR 1 SEE IF END OF DATA COLLECTION			*		,, BUTS ON SOLID - POSSIBLY NOT
0018DA 0018DE	47 60 F 860 47 F0 F 924	BC BC	UNEQ.PBDR11 UNC.PBDR30	BR IF NO			*		,, GETTING PRINT BUFFER DATA REG
001002	*		UNC FEBURSU	GO ANALYZE COLLECTED DATA	0019AE 0019AF	44 07	DC DC	X'44' X'07'	,, ERROR OUTPUT ,, 7 CHARACTERS
0018E2	41 00 F 800 PBDR	20 LA	RO,CKRCCW	LOAD DIAG CK RD CCW ADDR IN CAW	001980	FB50	DC	AL2(ERRO51-BASE+REG)	,, ADDRESS OF MESSAGE
0018E6 0018EA	50 00 F 048	ST	RO,CAW	•••	001982	47 FO F A70	BC ∗	UNC, LGOUT	GO SEE IF WANT LOG OUT
0018F0	D2 01 F 57C F B35 45 B0 F 228	MVC BAL	SCPDAT(2),PBDRK1 R11,SIO	SET OOFF IN DATA FIELD GO DO DIAG CK READ	001986	41 10 F 786	* PBDR60 LA	R1,DAT80	INITIALIZE DOUTINE
0018F4 0018FA	D5 01 F 57C F 835 47 80 F 914		SCPDAT(2),PBDRK1 EQ,PBDR21	SEE IF ANY DATA WAS XFERRED	0019BA	41 50 0 034	LA LA	R5,52	INITIALIZE ROUTINE
0018FE	D2 01 F 57C F 835	MVC	SCPDAT(2),PBDRK1	GO PRINT ERROR SET OOFF IN DATA FIELD	0019BE 0019C2	41 20 F 7CC D2 09 F 77C 1 000	LA PBDR61 MVC	R2,DAT01 DATWK(10),O(R1)	MOVE DATA TO WORK AREA
001904 001908	45 B0 F 228 D5 01 F 57C F B35	BAL CLC	R11,SIO SCPDAT(2),PBDRK1	GO DO SECOND DIAG CK READ SEE IF ANY DATA WAS XFERRED	001908	41 90 5 000	LA	R9,0(R0,R5)	SET UP ERROR NUMBER
00190E 001912	47 80 F 914 . 07 F8	BC BCR	EQ.PBDR21	GO PRINT ERROR	0019CC 0019D0	43 40 F 77C 44 40 F 974	IC EX		SET UP MASK SEE IF BIT READ
001914	D2 02 F 822 F 753 PBDR	21 MVC . '	MSG1+56(3), UAPRT .	RETURN SET PRINTER ADDR IN OUTPUT MSG	0019D4 0019D8	47 80 F 9FA 41 90 9 001	BC LA	NONE, PBDR63	BR IF NO SET UP ERROR NUMBER
00191A 00191C	0A D0 40	SVC DC	X'00° X'40°	NO DATA TRANSFERRED BY DIAG CHECK RD	0019DC	44 40 F 9F6	EX	R4,PBDR62	JET OF ERROR HUMBER
001910	31		X:31°	,, 49 CHARACTERS	0019E0 0019E4	47 10 F 9FA 15 12	BC CLR	ALL,PBDR63 R1,R2	SEE IF FINISHED HERE
DATE	16 DMCE 15 DMC			C				•	<del>-</del>
DATE EC		15NOV66 125655		ID F80D-3 Page 2	DATE	16JUN65 15JUL65 15M	IAR66 15NOV66 6632 125655		ID F80D-3
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IBM MAINTENANCE DIAGNOSTIC PROGRAM	P/N 840225	AND MAINTENANCE DIAGNOSTIC DOCCOM
	PAGE 3	IBM MAINTENANCE DIAGNOSTIC PROGRAM  P/N 840225 PAGE 3A
F80C 2821 SCAN, 1403 UNIVERSAL CHARACTER SET F80D3 PRINT BUFFER DATA REGISTER ROUTINE OVERLAY	3	FBOC 2821 SCAN, 1403 UNIVERSAL CHARACTER SET FBOD3 PRINT BUFFER DATA REGISTER ROUTINE OVERLAY 3
0019EA 41 10 1 00A LA R1, 0019EE 41 50 5 002 LA R5, 0019F2 47 F0 F 9C2 BC UNC 0019F6 91 00 F 7DB PBDR62 TM DATI 0019FA 4E 90 F 770 PBDR63 CVD R9, 0019FE 0A DD SVC X*DI 001A00 00002 DC AL2 001A02 0776 DC AL2	2(2) ,, 2(WKAR+6-SECNO) ,, 2(ERRXX+4-SECNO) ,,	001A8A         077C         DC         AL2(DATHK-SECNO)         ,, HEX DATA ADDRESS           001A8C         057C         DC         AL2(SCPDAT-SECNO)         ,, PRINTABLE DATA ADDRESS           001A8E         41 30 F 57C         LA         R3,SCPDAT         INITIALIZE           001A92         41 40 F 59O         LA         R4,SCPDAT+2O         ,,           001A96         41 50 F 5EO         LA         R5,SCPDAT+1OO         ,,           001A9A         92 40 F 5EO         MVI         SCPDAT+1OO,X*4O*         SET UP PRINT FIELD           001A9A         D2 30 F 5E1 F 5EO         MVC         SCPDAT+1O1(49),SCPDAT+1OO         ,,           001AA4         D2 01 5 000 3 000         LGOUTB         MVC         SCPDAT+1O1(49),SCPDAT+1OO         ,,           001AAA         15 34         CLR         R3,R4         BR IF END           001ABC         47 80 F ABC         BC         EQ,LGOUTC         3,           001ABO         41 50 5 003         LA         R5,3(R0,R5)         UPDATE ADDRESSES           001ABB         47 F0 F AA4         BC         UNC,LGOUTB         CONTINUE
001A0C 47 F0 F A70 BC UNC	44* ,, PRINT ERR 07* ,, 7 CHARACTERS 2(ERRXX-BASE+REG) ,, ADDRESS OF MESSAGE C,LGOUT GO SEE IF WANT LOG OUT	001ABC 0A DO
001A14 47 10 F A48 BC ALL 001A18 D5 07 F 590 F 5C2 CLC SCPI	PDAT+28,X°FF° BR IF GOT PARITY WITH CE FOR DAT OO L,PBDR72 ,, PDAT+20(8),SCPDAT+70 BR IF GOT PARITY WITH CE FOR ALL ,, OTHER BIT SETS	001AC8
001A22 D5 07 F 590 F 5AE CLC SCPI 001A28 47 60 F A66 BC UNET 001A2C 91 FF F 599 TM SCPI 001A30 47 10 F A66 BC ALL 001A34 0A D0 SVC X'D0 001A36 84 DC X'B4 001A37 12 DC X'12 001A38 FB37 DC AL26	84' 12' 18 CHARACTERS 2(NERDET-BASE+REG) , ADDRESS OF MESSAGE	# ,, UTILITY ROUTINE  001AD6 47 80 F ADE
001A3A 47 F0 F A70 BC UNC 001A3E 0A DO PBDR71 SVC X'DO * 001A40 44 DC X'44 001A41 D7 DC X'07	,, PARITY BIT ALWAYS ACTIVE	**************************************
001A42 FBC7 DC AL20 001A44 47 F0 F A70 BC UNC	2/ERRO68-BASE+REG) ,, ADDRESS OF MESSAGE C,LGOUT GO SEE IF WANT LOG OUT PDAT+20(8),SCPDAT+70 BR IF GOT PARITY WITH CE FOR ALL ,, OTHER BIT SETS	**************************************
001A52 D5 07 F 590 F 5AE CLC SCPE	,PBDR73 PDAT+20(8),SCPDAT+50 BR IF GOT PARITY WITH CE FOR ANY ,, OTHER BITS	001B11 61F1F4F0F340E4 001B1B C3E26B40D7D9C9D5E3 DC C*CS, PRINT BUFFER* 001B21 40C2E4C6C6C5D9 001B28 40C4C1E3C140D9C5C7 DC C* DATA REG FLT*
001A5C 0A D0 SVC X DC ** DC X 44	,, PARITY BIT NEVER ACTIVE	001831 40C6D3E3 001835 00FF P8DRK1 DC X'00FF' 001837 D5D640C5D9D9D6D9E2 NERDET DC C'NO ERRORS DETECT' 001840 40C4C5E3C5C3E3
001A62 47 F0 F A70 BC UNC. 001A66 0A D0 PBDR73 SVC X*DC	2(ERRO69-BASE+REG) ,, ADDRESS OF MESSAGE C, LGOUT GO SEE IF WANT LOGOUT	001B47 C5C4 DC C°ED°  **********************************
001A6C 47 F0 F A70 BC UNC.		# GENERAL REGISTER EQUATES  ** 000000 RO EQU 0 000001 R1 EQU 1
* LOG OUT RC ***********	# ************************************	000002 R2 EQU 2 000003 R3 EQU 3 000004 R4 EQU 4
001A74 47 80 F A02 BC NONE 001A78 41 10 F 786 LA R1,0 001A7C 41 20 F 7E0 LA R2,0		000005 R5 EQU 5 000006 R6 EQU 6 000007 R7 EQU 7 000008 R8 EQU 8 000009 R9 EQU 9 00000A R10 EQU 10 00000B R11 EQU 11
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IBM MAIN	NTENANCE DIAGNOSTIC PROGRA	м			P/N 840225 PAGE 4	IBM MAI	NTENANCE DIAGNOSTIC PROGRA	)			P/N 840225 Page 4a
	2821 SCAN, 1403 UNIVERSAL PRINT BUFFER DATA REGISTER						2821 SCAN, 1403 UNIVERSAL PRINT BUFFER DATA REGISTER				
	00000D	R13 EQU 13				001881	C5D9D940F0F5F8	ERRO58 DC	C'ERR 058'	PRINT BUFFER DATA	REG BIT 3 NEVER
	00000E 00000F	R14 EQU 14 R15 EQU 15				001B88	C5D9D940F0F5F9	* ERRO59 DC	C'ERR 059'	,, ACTIVE PRINT BUFFER DATA	REG BIT 3 ALWAYS
		* CONDITION CODE	EQUATES			001B8F	C5D9D940F0F6F0	* ERRO60 DC	C'ERR 060'	,, ACTIVE PRINT BUFFER DATA	REG BIT 4 NEVER
•	000008	* NONE EQU 8		ALL OFF 0		001B96	C5D9D940F0F6F1	* ERRO61 DC	C'ERR 061'	,, ACTIVE PRINT BUFFER DATA	REG BIT 4 ALWAYS
	000005 000001	ANY EQU 5 ALL EQU 1		ANY ON 1 3 ALL ON 3		001890	C5D9D940F0F6F2	* ERRO62 DC	C'ERR 062'	,, ACTIVE PRINT BUFFER DATA	REG BIT 5 NEVER
	000004 000009	SOME EQU 4		MIXED 1 NOT MIXED 0 3		001BA4	C5D9D940F0F6F3	* ERRO63 DC	C'ERR 063'	,, ACTIVE PRINT BUFFER DATA	REG BIT 5 ALWAYS
	000008 000006	EQ EQU 8 UNEQ EQU 6		EQUAL 0 NOT EQUAL 1 2	.*	001BAB	°C5D9D940F0F6F4	* ERRO64 DC	C*ERR 064*	,, ACTIVE PRINT BUFFER DATA	REG BIT 6 NEVER
	000004	LO EQU 4 HI EQU 2		LOW 1 HIGH 2		.001882	C5D9D940F0F6F5	* ERRO65 DC	.C*ERR 065*	,, ACTIVE PRINT BUFFER DATA	
	000008 000002	Z EQU 8 Pos equ 2	•	ZERO O . GREATER ZERO 2		001889	C5D9D940F0F6F6	* ERRO66 DC	C*ERR 066*	,, ACTIVE PRINT BUFFER DATA	
	000008 000004	CCO EQU 8 CC1 EQU 4	•	AVAILABLE O CSW STORED 1		001BC0	C5D9D940F0F6F7	* ERRO67 DC	C'ERR 067'	PRINT BUFFER DATA	·
	000002 00000F	CC2 EQU 2 UNC EQU 15		BUSY 2 UNCONDITIONAL 0 1 2 3		001BC7	C5D9D940F0F6F8	* ERRO68 DC	C'ERR 068'	,, ACTIVE PRINT BUFFER DATA	į.
	00000D 000007	NOTBSY EQU 13 NZ EQU 7		NOT BUSY 0 1 3 NOT CC 0 1 2 3		001BCE	C5D9D940F0F6F9	* ERRO69 DC	C*ERR 069*	,, ALWAYS ACTIVE PRINT BUFFER DATA	
	000004 00000C	NEG EQU 4 ZNEG EQU 12		NOT ZERO -AND- 1 MIXED OR NONE 0 1		001BD5	C5D9D940F0F7F0	* ERRO70 DC	C'ERR 070'	,, NEVER ACTIVE FALSE PRINT BUFFE	
	000008	CSWNST EQU 11		CSW NOT STORED 0 2 3		001605	CSDSDS40FOFTFO	*		+++++++++++++++++++	
		# GENERAL EQUATE	<b>s</b> ,				001000	BASE EQU	SECNO		
	000040	HCSW EQU 64		HARDWARE CSW LOCATION			00F000 1	REG EQU END	X*F000*		
	000048 000078	HCAW EQU 72 HION EQU 120		HARDWARE CAW LOCATION HARDWARE I/O NEW PSW LOC	AT ION						
	001118	CSWSAV EQU SIOVR3									
		* EQUATES FOR RO	UTINE 03 EXC	LUSIVELY							
	00177D 00177E	STAT1 EQU DATWK+1 STAT2 EQU DATWK+2									No.
	00177F 001780	WRSNS EQU DATWK+3 WCKRD EQU DATWK+4							•		
	001781 001782	DARD EQU DATWK+5 STATRD EQU DATWK+6		* •	•						
	001783 001784	RDSNS EQU DATWK+7 RCKRD EQU DATWK+8									
•	001785 00177C	STSW EQU DATWK+9 DAWR EQU DATWK						• . •			
	0015E0	PRTLOG EQU SCPDAT+1		*******	****						
		* ERROR DEFINITION			*						
001849	C5D9D940F0F5F0	ERROSO DC C'ERR 05	01	NO PRINT BUFFER DATA REG	BITS CAN					The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	
001050		* ERR051 DC C*ERR 05	1.0	,, DATA REG RESET MAY B ALL PRINT BUFFER DATA RE	E ON SOLID			o in the state			
001850	C5D9D940F0F5F1	ERRO51 DC C'ERR 05		,, ON. SOLID NOT GETTI	NG PRINT			**			
001857	C5D9D940F0F5F2	ERROS2 DC C'ERR OS	21	,, BUFFER DATA REG RESE PRINT BUFFER DATA REG BI							
00185E	C5D9D940F0F5F3	ERROS3 DC C'ERR 05	31	PRINT BUFFER DATA REG BI	T O ALWAYS			•			*
001865	C5D9D940F0F5F4	* ERROS4 DC C'ERR OS	4.1	PRINT BUFFER DATA REG BI	T 1 NEVER					n de la companya de la companya de la companya de la companya de la companya de la companya de la companya de Companya de la companya	
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ĮBM MAINTENANCE DIAGNOSTIC PRO	GRAM P/N 840225 PAGE 7	IBM MAINTENANCE DIAGNOSTIC PROGRAM P/N 840225 PAGE 7A
F80C 2821 SCAN, 1403 UNIVER F80D3 UNIV. CHAR. BUFFER DATA		F80C 2821 SCAN, 1403 UNIVERSAL CHARACTER SET F80D3 UNIV. CHAR. BUFFER DATA REGISTER ROUTINE OVERLAY 4
0017FD 01 0017FE 000000000000000000000000000000000000	DATO1 DC X'01'	001910 D2 00 F 7BB F 7B7 UBDR15 MVC PW(1), UCBWR SET UP DATA TO BE LOADED IN UCB 001916 45 80 F 9BE BAL R8, UCSL GO LOAD UCS BUFFER 00191A 45 80 F 9FA BAL R8, DCKRD GO PERFORM 1ST DIAG CHECK READ 00191E 45 80 F 9FA BAL R8, DCKRD GO PERFORM 2ND DIAG CHECK READ 001922 D2 00 F 7BA F 57C MVC UCBWCR(1), SCPDAT SAVE DIAG CHECK READ DATA 001928 47 F0 F 94E BC UNC, UBDR18 GO PERFORM DIAG WRITE 00192C 45 80 F 9FA UBDR16 BAL R8, DCKRD GO PERFORM 1ST DIAG CHECK READ 001930 45 80 F 9FA UBDR16 BAL R8, DCKRD GO PERFORM 2ND DIAG CHECK READ 001934 D2 00 F 7BF F 57C UBDR17 MVC PWCR(1), SCPDAT SAVE DIAG CHECK READ DATA 001934 D2 09 1 000 F 7B7 MVC O(10,R1), DATWK SAVE ALL COLLECTED DATA 001940 15 19 001942 47 80 F A36 BC EQ, UBDR20 BR IF YES 001946 41 10 1 00A LA R1, 10(R0,R1) UPDATE ADDRESSES 001946 47 F0 F 8D2  **  UBDR18 CLR R1,R5 SEE IF WANT TO LAOD UCB WITH NULLS
001852 E240D6C640E4C3E240 00185B C2E4C6C65D940 001862 C6D6D940D7D9C9D5E3	DC C'S DF UCS BUFFER *  DC C'FOR PRINTER'	001950 47 80 F 95C BC EQ,UBDR19 BR IF YES 001954 45 80 F 9BC BAL R8,UCSDW GO PERFORM DIAG WRITE 001958 47 F0 F 92C BC UNC,UBDR16 RETURN
00186B C5D9 00186D 40404040C4C5E2E3D9 001876 D6E8C5C46B40D9 00187D C5E2E3D6D9C540E6C9 001886 E3C840D7D9D6C7 00188D D9C1D440C6F8F3F7	RMSG1 DC C DESTROYED, R'  DC C'ESTORE WITH PROG'  DC C'RAM F837'  ***********************************	**  O0195C 1B 66 UBDR19 SR R6,R6 CLEAR GR 6  O0195E 41 60 6 001 UBDR1A LA R6,1(R0,R6) GENERATE NEW CODE  O01962 42 60 F 7BB STC R6,PW SAVE NEW CODE  O01966 95 40 F 7BB CLI PW,X'40* SEE IF BLANK CODE  O01964 47 80 F 95E BC EQ,UBDR1A BR IF YES  O0196E 45 80 F 9BC BAL R8,UCSDW GO PERFORM DIAG WRITE  O01972 45 80 F 9FA BAL R8,DCKRD GO PERFORM 1ST DIAG CHECK READ
001896 001896 07 00 001898 04 001899 00 00189A FFFF	**************************************	00197A 91 04 F 57C TM SCPDAT,X*04* SEE IF GOT PLC 00197E 47 10 F 934 BC ALL,UBDR17 GR IF YES 001982 95 FF F 7BB CLI PW,X*FF* SEE IF USED ALL CODES 001986 47 60 F 95E BC UNEQ,UBDR1A BR IF NO 00198A 47 FO F 934 BC UNC,UBDR17 END OF GENERATING CODES *
00189C 95 84 F 751 0018A0 47 80 F 8A8 0018A4 47 F0 F CBA 0018A8 91 03 F 004 0018B0 0A D0 0018B2 80 0018B3 24 0018B4 FCF0 0018B6 91 40 F 004 0018BA 47 80 F 8C2 0018BA 47 80 F 8C2	UBDROO CLI SCHNUM, x '84' SEE IF SEARCHING FOR ROUTINE 04 BC EQ, UBDRO1 RUN ROUTINE 04 IF YES BC UNC, LGOUTG GO PRINT MESSAGE ROUTINE EXIT UBDRO1 TM SNSW, X '03' BR IF SEC SS 06 IS 1 - PRINT TITLE BC NONE, UBDRO2 BR IF NO SVC X 'D0' PRINT TITLE DC X *80' NORMAL OUTPUT DC X '24' , 36 CHARACTERS DC AL2(TITLE-BASE+REG) , ADDRESS OF MESSAGE UBDRO2 TM SNSW, X '40' SEE IF SEC SS 01 IS 1 - WANT UTILITY BC NONE, UBDR10 BR IF NO BAL R8, SCPROO BR TO UTILITY ROUTINE	* ROUTINE TO LOAD UCS BUFFER  **  **  **  **  **  **  **  **  **
•	* DATA COLLECTION ROUTINE	* ROUTINE TO PERFORM DIAGNOSTIC WRITE
0018C2 41 10 F 7C1 0018C6 41 90 F 81B 0018CA 41 20 F 811 0018CE 41 50 F 807 0018D2 D2 09 F 7B7 1 000 0018D8 15 12 0018DA 47 60 F 910 0018DE 41 30 F 7C1 0018E2 41 40 F 7FD 0018E6 92 40 F 7B7	UBDR10 LA R1,DAT80 INITIALIZE ROUTINE  LA R9,DATFF ,, LA R2,DAT40 ,, LA R5,DAT00 ,, UBDR11 MVC DATWK(10),O(R1) MOVE DATA TO WORK AREA CLR R1,R2 SEE IF WANT TO WRITE BLANK BC UNEQ,UBDR15 BR IF NO LA R3,DAT80 DETERMINE CHAR TO USE INSTEAD OF 40 LA R4,DAT01 ,, MVI DATWK,X*40* ,,	0019BC
0018EA 91 04 3 008 0018EE 47 10 F 90A 0018F2 15 34 0018F4 47 80 F 900	UBDR12 TM 8(R3),X*04*  BC ALL,UBDR14  CLR R3,R4  BC EQ,UBDR13  ,,	0019F2 D2 00 F 7BE F 120 MVC PWSNS(1), SENSE SAVE DIAG WR SENSE DATA 0019F8 07 F8 BCR UNC, R8 RETURN
0018F8 41 30 3 00A 0018FC 47 F0 F 8EA	LA R3,10(R0,R3) ,, BC UNC,UBDR12 ,,	* ROUTINE TO PERFORM DIAGNOSTIC CHECK READ  *** *** *** *** ** ** ** ** ** ** **
001900 D6 00 F 787 F 808 001906 47 F0 F 910 00190A D6 00 F 787 3 000	UBDR13 OC DATWK(1),DAT00+4 ,, BC UNC,UBDR15 ,, UBDR14 OC DATWK(1),O(R3) ,,	0019FA D2 01 F 57C F D14 DCKRD MVC SCPDAT(2),PBDRK1 INITIALIZE CHECK READ FIELD 001A00 D2 82 F 57D F 57C MVC SCPDAT+1(131),SCPDAT ,, 001A06 92 00 F 122 MVI SIOSWS,X*00* RESET SIO PGM SWITCHES
DATE 16JUN65 15JUL65 15	MAR66 15NOV66 ID F80D-3 5632 125655 PAGE 7	DATE 16JUN65 15JUL65 15MAR66 15NOV66 ID F80D-3 EC 124263 124265 125632 125655 PAGE 7A

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IBM MAIN	NTENANCE DIAGNOSTIC PROGR	AM .			P/N 840225 PAGE 9	IBM MAIN	TENANCE DIAGNOSTIC P	PROGRAM				P/N 840225 PAGE 9A
F80C F80D3 L	2821 SCAN, 1403 UNIVERSA JNIV. CHAR. BUFFER DATA R	L CHARACTER SE EGISTER ROUTIN	ET NE OVERLAY 4				2821 SCAN, 1403 UNIV NIV. CHAR. BUFFER DA					
001884	44 50 F BA2	EX BC	R5,UBDR44 A ALL,UBDR45	FIND HOT BITS BR IF THIS BIT IS HOT		001C2C	OA DO		; SVC	X*D0*	ERROR 109 - CANNOT TURN	ON UCB DATA
001B88 001B8C	47 10 F BA6 15 12	CLR	R1,R2	SEE IF END		001C2E	44	<b>-</b>	DC	X * 44 *	11	
001B8E	47 60 F 896	BC	UNEQ,*+8	BR IF NO PROGRAM OR MACHINE ERROR		001C2F	07		DC DC	X'07' AL2(ERR109-BASE+REG)	,, 7 CHARACTERS ,, ADDRESS OF MESSAGE	
001892 001896	47 FO F 892 41 10 1 001	BC LA	UNC;* R1;1(R0;R1)	UPDATE ADDRESS		001C30 001C32	FEOD 47 FO F C40		BC	UNC , LGOUT	GO SEE IF WANT LOG OUT	
001B9A	41 90 9 001	LA BC	R9,1(R0,R9) UNC,UBDR43	UPDATE ERROR NUMBER CONTINUE				*				
001B9E 001BA2	47 FO F B80 91 00 F 80B	UBDR44 TM	DAT00+4,X *00 *	USED BY EXECUTE OP		001C36	OA DO	UBDR8		X*D0*	ERROR 110 - PLC OR COMPA	RE PROBLEM
001BA6	4E 90 F 770 OA DD	UBDR45 CVD SVC	R9,WKAR X'DD'	CONVERT ERROR NO TO PRINT	ABLE	001C38 001C39	44 07		DC DC	X'44' X'07'	,, 7 CHARACTERS	
OOLBAC	0002	DC	AL2(2)	**		001C3A	FE14		DC	AL2(ERR110-BASE+REG)	,, ADDRESS OF MESSAGE	
001BAE 001BB0	0776 083E	DC DC	AL2(WKAR+6-SECNO) AL2(ERRX+4-SECNO)	**	•	001C3C	47 FO F C40	*	BC	UNC . LGOUT	GO SEE IF WANT LOG OUT	•
001882	OA DO .	SVC	X*D0*	ERROR - HAVE UCB DATA REG	HOT BIT			. •	LOG (	OUT ROUTINE		
001884 001885 001886	44 07 F83A	DC DC DC	X º 44 º X º 07 º AL2 (ERRX-BASE+REG)	,, 7 CHARACTERS , ADDRESS OF MESSAGE		001C40	91 20 F 004	‡ GOUT	TM	SNSW.X.20.	BR IF SEC SS 02 IS 0 - 0	O NOT WANT
001888	47 FO F C40	BC	UNC , LGOUT	GO SEE IF WANT LOG OUT		001C44	47 80 F CA2	-	ВС	NONE, LGOUTE	11	
		*				001C48 001C4C	41 10 F 7C1 41 20 F 818		LA LA	R1,DAT80 R2,DATFF	INITIALIZE	
001BBC	D5 06 F D16 F 826	UBDR50 CLC	PBDRK2(7),PLCB	SEE IF DID NOT GET PLC FO		001050	D2 09 F 787 1 000	LGOUT	A MVC SVC	DATWK(10),0(R1) X'DD'	MOVE DATA CONVERT DATA TO PRINTABL	F
001BC2 001BC6	47 60 F C22 91 04 F 819	BC TM	UNEQ,UBDR70 DAT40+8,X*04*	,, BR IF DID GET ALL UN	CHIVED	001C56 001C58	OA DD 0009		DC	AL2(9)	,, CONVERT 9 BYTES	·• ·
001BCA 001BCE	47 80 F BD8 0A D0	BC SVC	NONE,UBDR51 X°D0°	,, BR IF DID GET ALL OR ERROR 094 - UCB DATA REG		001C5A 001C5C	0787 057C		DC DC	AL2(DATWK-SECNO) AL2(SCPDAT-SECNO)	,, HEX DATA ADDRESS PRINTABLE DATA ADDR	ESS
OUTBLE	0A 00	*	•	,, SOLID		001C5E	41 30 F 57C		LA :	R3.SCPDAT	INITIALIZE	
001BD0 001BD1	44 07	DC DC	X*44* X*07*	11 11 7 CHARACTERS		001C62 001C66	41 40 F 590 41 50 F 5E0		LA La	R4,SCPDAT+20 R5,SCPDAT+100	11	
001802	FDA4	DC	AL2(ERRO94-BASE+REG)	,, ADDRESS OF MESSAGE		001C6A	92 40 F 5E0		MVI	SCPDAT+100,X'40'	SET UP PRINT FIELD	
001BD4	47 FO F C40	8C *	UNC , LGOUT	GO SEE IF WANT LOG OUT		001C6E 001C74	D2 30 F 5E1 F 5E0 D2 01 5 000 3 000	LGOUT	MVC B MVC	SCPDAT+101(49),SCPDAT 0(2,R5),0(R3)	***	
		*	V4004	EDDED 101 NOT CETTING	CO DATA DEC	001C7A	15 34		CLR BC	R3,R4 EQ,LGOUTC	BR IF END	
001BD8	OA DO	UBDR51 SVC *	X'DO'	FROR 101 - NOT GETTING L		001C7C 001C80	47 80 F C8C 41 50 5 003	*	LA	R5,3(R0,R5)	UPDATE ADDRESSES	
001BDA	44	* DC	X*44*	,, RESET ON SOLID		001C84 001C88	41 30 3 002 47 FO F C74		LA BC	R3,2(R0,R3) UNC,LGOUTB	CONTINUE	
001BDB	07	DC	X*07*	,, 7 CHARACTERS		001C8C	OA DO	LGOUT	C SVC	X 'DO'	LOG OUT OF ACCUMULATED	ATA
001BDC 001BDE	FDD5 47 FO F C40	DC BC	AL2(ERR101-BASE+REG) UNC,LGOUT	,, ADDRESS OF MESSAGE GO SEE IF WANT LOG OUT		001C8E 001C8F	80 1A		DC DC	X*80* X*1A*	,, 26 CHARACTERS	
		*	·			001090	F 5E0 15 12		DC Clr	S(SCPDAT+100) R1,R2	,, ADDRESS OF MESSAGE SEE IF END OF LOG OUT	
001BE2	41 10 F 826	UBDR60 LA	R1,PLCB	INITIALIZE		001C92 001C94	47 80 F CAO		вс	EQ,LGOUTD	BR IF YES	
001BE6 001BEA	41 20 F 82C 41 90 0 066	LA LA	R2,PLCB+6 R9,102	11 11	•	001C98 001C9C	41 10 1 00A 47 FO F C50		LA BC	R1,10(R0,R1) UNC,LGOUTA	UPDATE ADDRESSES CONTINUE	
001BEE	91 FF 1 000	UBDR61 TM	O(R1),X*FF*	BR IF NO PLC		001CA0	OA DA		D SVC	X DA .	HALT + WAIT FOR ACTION BR IF SEC SS 01 IS 0 - 1	O NOT WANT
001BF2 001BF6	47 80 F COC 15 12	BC CLR	NONE, UBDR63 R1, R2	SEE IF END		001CA2	91 40 F 004	LGOUT	E IM	SNSW,X"40"	,, UTILITY ROUTINE	70 HOT WATE
001BF8 001BFC	47 80 F C08 41 10 1 001	BC. LA	EQ,UBDR62 R1,1(R0,R1)	BR IF YES UPDATE ADDRESS		001CA6	47 80 F CAE 45 80 F 678		BC BAL	NONE,LGOUTF R8,SCPROO	BR TO UTILITY ROUTINE	
001000	41 90 9 001	LA	R9,1(R0,R9)	UPDATE ERROR NUMBER		001CAE	91 20 E 1A3	LGOUT	FTM	419(R14),X'20'	IS LOOP ON SEC SS ON	
001C04 001C08	47 FO F BEE 47 FO F CO8	BC UBDR62 BC	UNC, UBDR61	CONTINUE  **** PROGRAM OR MACHINE E	ERROR ****	001CB2 001CB6	47 10 F CBA 96 40 F 751		BC GI	ALL,LGOUTG SCHNUM,X*40*	BR IF YES SET UP TO BYPASS ALL REI	
· 001C0C	4E 90 F 770	UBDR63 CVD	R9,WKAR	CONVERT ERR NO. TO PRINTA		001CBA	D2 O2 F 86D F 753	LGOUT	G MVC	RMSG1(3),UAPRT	MOVE PRINTER ADDR TO OUT PRINT MESSAGE: INDICATING	
001C10 001C12	0A DD 0002	SVC DC	X'DD' AL2(2)	,,	1	001CC0 001CC2	0A D0 80		SVC DC	X'80'	,, UCS BUFFER WITH PRO	
001014	0776	DC	AL2(WKAR+6-SECNO)	**		001003	2B F842		DC DC	X'2B' AL2(RMSG-BASE+REG)	* * * * * * * * * * * * * * * * * * *	
001C16 001C18	083E 0A DO	DC SVC	AL2(ERRX+4-SECNO) X*DO*	ERROR - CAN NOT TURN ON L	JCB DATA REG	001CC4 . 001CC6	0A D0		SVC	X'DO'	,,	
001C1A	44	≠ DC	X*44*	,, BIT X		001CC8 001CC9	80 28		DC DC	X'80' X'28'	11 11	*
001C1B	07	DC .	X*07*	7 CHARACTERS		OOLCCA	F86D		DC	AL2(RMSG1-BASE+REG)	ROUTINE EXIT	
001C1C 001C1E	F83A 47 F0 F C40	DC BC	AL2(ERRX-BASE+REG) UNC,LGOUT	,, ADDRESS OF MESSAGE GO SEE IF WANT LOG OUT		001000	OA D6	****			************* KOOIINE EVII	*****
		*			i	Sometime services		*****	CCW.	S USED BY ROUTINE 04	*****	* *********
001022	D5 06 F D20 F 826	* UBDR70 CLC	PBDRK3(7),PLCB	GET PLC FOR ALL BUT DATA	0 _	00100	EB 00157C 6000 00	01 LUBCC	W CCW	X'EB',SCPDAT,X'60',1	COND LD FMT CCW - SLI +	CC ON
001C28	47 60 F BE2	вС	UNEQ,UBDR60	BR IF NO		001CD8	FB 00157C 2000 00	F0	CCW	X 'FB', SCPDAT, X 'ZO', Z4	O LOAD UCS BUFFER - SLI	UI1
DATE	36 UINGS 35 UU 45 35 UA	D & & 1 ENDV4 4	ŀ		ID F80D-3	DATE	16JUN65 15JUL65	15MAR66 1	5NOV66			ID F80D-3
EC	16JUN65 15JUL65 15MA 124263 124265 1256				PAGE 9	EC	124263 124265		25655	•		PAGE 9A

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IBA	MAINTEN	IANCE DI	AGNOST L	C PROGRAI	4									/N 84 AGE		181	MAI	NT ENAN	CE DIAG	NOSTIC	PROGRAM									•	(N) 04000	distriction of the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the latest desired to the lat
F80	80C 282 D3 UNIV	SCAN,	1403 UI BUFFER	NIVERSAL DATA REG	CHARAC SISTER	TER SET	OVERLA'	Y 4					•	406		F	-80 <b>C</b>	2821	SCAN, 1	403 UNI	VERSAL	CHARACT	FR SET								/N 840225 AGE 11/	
													٠.			F80	D3	UNIV.	CHAR. B	UFFER D	ATA REG	ISTER R	OUTINE	OVERLAY	4							Accessed to Linearing
Pus	T ASSEME	SLY DAIA	•									•						8	1D3A	HBIT	1874,	1878										
	REFERE	NCES TO	DEFINE	SYMBOLS	S.										**			1	48 40 78	HCAW HCSW HION								•, •				
		_				•												16	177C 8	MSG1 NONE		1A30 18BA,	1454.	1864,	1490.	1856.	1804					
	*	1	8 Z 8 E	18A0,	18F4	1942	1950	, 196A	, 1A2O,	1A6E			**					10	1826	PLCB	1BF2, 1A3E,	1C44, 1A82,	1CA6	1BBC,								
		1 2	2 H1		1858	, 1C7C,	1094										•	10 16	17BF 1842 1004	PWCR RMSG SNSW	1934, 1004											Maria andrea
	1		7 NZ B PW	- 1910,	1962	, 1966,	1982,	19BC		•								1	4 1830	SOME		1886,		1CAZ	1ACE.	1 409 -	1450				•	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
		1 (	D RO	18F8, 1AOA,	1946; 1A0E;	, 195E,	199E	19A2	19D6,	1826								6	198E	UCSL	1AF6, 1916	1808,	180C								•	
		1 1	L R1	1880, 1098 1802,		, 189A, 18D8,			1080,									1	1770	UNEQ	IADE,	IAF2,	1B66.	1AA2, 1B8E,	1BC2.	1 C 2 B	1AD4		,			
		-		194E,	1A36	1A46.	1A6C.	1472	1946, 1A72, 1B80,	1808								1	1770 C 11A4	WKAR ZNEG CSWAG	19AE	183A,	IBA6,	18AE,	1000,	1014						
				1896, 1C48,	1896, 1C50,	18E2, 1C92,	18EE,	18F6,	1BFC,	1BFC				14				1	1807 17FD	DATOO DATO1		1900,	1852,	185A,	1862,	18A2						
		- -		188C,	1866,	1BF6,	1C4C.	1092	181C,						e de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della cons		:	1	17F3 17E9	DAT04											•	e por l'annament
			, ,,	184C, 184C,	1458,	1A76,	1878,	18F8	190A, 1074,	1A3E 1C7A								1	1705	DATOS DAT10 DAT20							:					
		l 4		18E2, 1C62,	18F2,				1A7A,					•	-			. <u>1</u>	1811 17C1	DAT40	18CA, 18C2,	188C.	18C6 1A36,	1C48	•							er virtualista anno an
		L 5	R5 R6	1680					1074,	1C80					- Cango			, 10	181B 17B7		18C6, 18D2,	18E6,	1C4C 1900,	190A,	193A,	1846,	1050					
		l 7	R7			195E.			1930,	1054					ĺ			6	19FA	DCKRD	105A, 1042, 191A,	1042, 1042, 191E,	1042			1042,						
	1	i 9	R9	196E, 18C6,	1972, 1940,	1976, 1810,	19BA, 1826,	19F8,	1A24, 1B32.	1CAA								4	1040	LGOUT		lACA,	1AE8.	1930, 1804, 1C1E,	1844.	184E.	1870					
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F80D 2821 SCAN 1403 UCS OVERLAY 3 + 4

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